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THE FRAMINGHAM STUDY

An Epidemiological Investigation
of
Cardiovascular Disease

Section 26

Some Characteristics Related to the Incidence of Cardiovascular Disease and Death: Framingham Study, 16-year Follow-up.

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An Epidemiological Investigation of Cardiovascular Disease

Editors: William B. Kannel, M.D. and Tavia Gordon

Section 26. Some characteristics related to the incidence of cardiovascular disease and death: Framingham Study, 16-year follow-up.

Dewey Shurtleff

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Section 26

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Some Characteristics Related to the Incidence of Cardiovascular Disease and Death: Framingham Study, 16-year Follow-up.

Since 1948 the Framingham Study has followed a sample of adult residents in the town of Framingham, Massachusetts. This has been done in two ways. The first has been a standardized clinic examination repeated at two-year intervals. By this means a wide variety of information has been collected about the characteristics of people in the Study cohort both before and after the development of cardiovascular disease, as well as a standardized clinical evaluation of changes in their cardiovascular status. In addition, information about death and the development and course of disease has been obtained from a number of sources outside the clinic.

The design and execution of the Study are described in Sections 1 and 2 of this monograph. For some characteristics determined at examination mean values are given for the first seven examinations in Sections 3 and 4 and bivariate correlations are given for the second examination in Section 5. The incidence of various events is given in Sections 6, 7, and 8. Criteria for events are given in Section 8, and a description of the characteristics in Section 3. These are repeated and updated in this report.

The characteristics presented are those determined on many, if not all, of the successive clinic examinations. Other characteristics have been evaluated on one or two examinations only and in general have not been included in the monograph.

The major concern of the Study has been to evaluate the relationship of characteristics determined in well persons to the subsequent development of disease. This is done in a systematic fashion in Sections 9 through 22 of this monograph series, using the 14-year follow-up. The same general material is included in this Section 26, but updated to the 16-year follow-up and condensed to include only what seems to us the essential material. There are some minor differences in the clinical events and characteristics that are included but essentially the material in this section parallels that in Sections 9 through 22.

Like Sections 9 through 22, this section is exclusively a display of data. We would like to include a discussion here of what we feel to be the main findings indicated by the data--some new and very interesting relationships are evident in these data which warrant careful attention--but limitations of time and resources have made this difficult to do at this time. We hope subsequently to summarize some of the key findings but we feel an obligation to provide a detailed display of this information now for those who wish to use them for program planning and for evaluation of their own data.

The tables in this section show the relationship of a given characteristic, as measured in a population of persons free of disease, to the subsequent development of that disease. The table shows (by sex, age, and level of characteristic) the population at risk, the number of these persons developing the disease, and the ratio of these two numbers, the incidence rate. Further, the table shows, by sex and age, the

parameters of a curve, called the logistic function, fitted to the observations (the value of the characteristic at the beginning of the interval and the occurrence or non-occurrence of the disease within the interval constituting an observation on an individual).

The incidence tables presented in this section come in two forms. The first one, designated by an "A" in the table number, gives long-term incidence. Persons are characterized at Exam 1 and followed 16 years, at Exam 2 and followed 14 years, and at Exam 3 and followed 12 years. These tables indicate the predictive value of characterization over a long period of follow-up. Since the cardiovascular diseases have a long incubation period this is an important way of looking at the data. The first three characterizations (at Exams 1, 2, and 3) are presented separately so that the reader can judge whether any indicated relationships are persistent or accidental. Moreover, during the early examinations measuring techniques were being tightened up and the Study cohort was settling down. For instance, a sizeable part of the cohort failed to receive a serum cholesterol determination at Exam 1. Blood pressure readings were higher at the initial examination than at Exam 2, and higher at Exam 2 than at Exam 3, suggesting some disturbing effect of the first two examinations. For the 16-year follow-up the population at risk is the number of persons free of the disease at Exam 1, the incidence is the number of persons from this population first developing the disease during the next 16 years and the rate is a 16-year rate. The 14- and 12-year follow-up are treated the same way, except that characterization (and age) is given at Exams 2 and 3 respectively.

The "B" table deals with the incidence between one examination and the next, a two-year period. After being characterized at entry into the Study, persons are characterized anew at each following biennial examination and are shifted from one age group to the next as they grow older. The sum of the experience in the eight intervals of the 16-year follow-up is expressed as an average annual incidence rate. Thus, in the "B" table individual persons frequently contribute experience to two different ten-year age groups. By this means we can expand the age-specific experience, using reexamination as a substitute for a much larger original cohort.

The criteria for the events and descriptions of the characteristics are given after the following explanation of the statistics presented in the tables.

DESCRIPTION OF TABLES

The tables in Section 26 present data for 14 events and 19 characteristics. The numbering scheme for the tables puts the number for the event first, then the number for the characteristic, and last a letter "A" or "B". The meaning of "A" and "B" has just been described briefly, and will be described more explicitly later. The indexing scheme for the events and characteristics is as follows:

The 14 events and their index numbers are:

1- Coronary heart disease
2- Coronary heart disease other than angina pectoris
3- Myocardial infarction
4- Angina pectoris uncomplicated

5- Sudden death from coronary heart disease
6- Sudden and unexpected death from coronary heart disease
7- Nonsudden death from coronary heart disease
8- Cerebrovascular accident
9- Atherothrombotic brain infarction
10- Intermittent claudication
11- Congestive heart failure
12- Death
13- Death from coronary heart disease
14- Death from cardiovascular disease other than coronary heart disease.

The 19 characteristics and their index numbers are:

-1 Blood pressure, first examiner, systolic (mm Hg)
-2 Blood pressure, first examiner, diastolic (mm Hg)
-3 Serum cholesterol (mg/100 ml)
-4 Hemoglobin (decigrams per 100 ml)
-5 Phospholipid (mg/100 ml)
-6 Blood sugar (mg/100 ml)
-7 Uric acid (mg/liter)
-8 Framingham relative weight (percent)
-9 Vital capacity (deciliters)
-10 Alcohol consumed (ounces per month)
-11 Cigarettes smoked (number per day)
-12 Albumin in urine
-13 Sugar in urine
-14 Heart enlargement by X-ray
-15 Left ventricular hypertrophy by electrocardiogram
-16 Definite nonspecific T-wave abnormality by electrocardiogram
-17 Diabetes mellitus
-18 Hypertension
-19 Glucose intolerance

The levels shown for the characteristic in the stub of a table cover the range of the characteristic. In general a subject is characterized by his value at exam. If that value is unknown, he is assigned the value at the next earlier exam at which the characteristic has a known value. In Table 1-1-A, for example, 91 men aged 35 to 44 years at Exam 3 have a systolic blood pressure under 110 mm Hg as measured at Exam 3 (or at Exam 2 if not measured at Exam 3, or at Exam 1 if not

measured at Exams 3 and 2).

"Unknown" indicates that the subject has an unknown value for the characteristic at this exam and at each preceding exam. Since all subjects in the Study had a blood pressure reading at Exam 1, zero is shown for "Unknown" at Exams 1, 2, and 3 in Table 1-1-A, even though some individuals did not return to the clinic for a later exam.

Exceptions to these general rules occur for two characteristics, Table -15 and Table -17: left ventricular hypertrophy by electrocardiogram (LVH-ECG) and diabetes mellitus. If definite LVH-ECG is ever diagnosed the subject retains this diagnosis. If possible LVH-ECG is ever diagnosed, with no previous diagnosis of definite LVH-ECG, he retains this diagnosis unless it is changed to definite LVH-ECG at a later examination. Similarly, if diabetes is diagnosed the subject retains this diagnosis on subsequent examinations.

The range of actual values experienced at the first eight examinations appears in the stubs of a table for a particular characteristic, -1 to -10. For the characteristic -3, serum cholesterol, a slight modification has been made, as seen in Table 1-3-A and Table 1-3-B: The stub in Table 1-3-A shows a range of 96 to 696, while in Table 1-3-B the range goes to 1124 for women. A woman aged 49 years at Exam 7 had a measurement of 1124 for cholesterol, the only value in eight examinations higher than 696, which was recorded at Exam 5.

A-tables

An A-table gives three basic statistics for each of the first three

examinations, by sex, age, and level of characteristic. These statistics are:

1) Persons at risk

The number of subjects at risk at the baseline examination (which may be Exam 1, 2 or 3) is defined differently for different events. All subjects alive at the baseline examination are included in the population at risk of death (Tables 12-, 13-, and 14-). Subjects with preexisting coronary heart disease at Exam 1 or with definite coronary heart disease developed before the baseline examination are excluded from the population at risk where the event is coronary heart disease or one of its manifestations (Table 1- through Table 7-). Subjects with definite or doubtful cerebrovascular accident at Exam 1 or with definite cerebrovascular accident developed before the baseline examination are excluded from the population at risk where the event is cerebrovascular accident or atherothrombotic brain infarction (Tables 8- and 9-). Subjects with definite or doubtful intermittent claudication at Exam 1 or with definite intermittent claudication developed before the baseline examination are excluded from the population at risk of intermittent claudication (Table 10-). Subjects with definite or doubtful congestive heart failure at Exam 1 or with definite congestive heart failure developed before the baseline examination are excluded from the population at risk of congestive heart failure (Table 11-).

2) Incidence

This is the number of subjects in the population at risk at the baseline examination who develop the event in the period from the

examination to end of follow-up. Since Exam 9 marks the end of follow-up, the period to Exam 9 from Exam 1 is 16 years, from Exam 2 is 14 years, and from Exam 3 is 12 years.

3) Rate per 1000

For 1,000 subjects at risk at the baseline examination this is the number of subjects developing the event from the specified examination (1, 2, or 3) to the end of follow-up. Depending on whether follow-up is begun at Exam 1, 2, or 3 the incidence rate is a 16-, 14-, or 12-year rate.

To illustrate: In Table 1-1-A 60 men aged 45 to 54 years at Exam 2 are shown as free of coronary heart disease and as having a blood pressure between 150 and 159 mm Hg recorded at Exam 2 (or at Exam 1 if Exam 2 was not taken). Among these men 13 developed coronary heart disease in the 14 years following Exam 2. The incidence number 13 divided by the population number 60 gives an incidence rate of 0.21667, which is shown in the table as 217 per 1,000. If no incidence is observed, the rate is zero, provided there is a population at risk. Whenever the population at risk is zero, asterisks are shown for the rate. For example, in Table 1-5-A there are no women aged 35 to 44 years at Exam 1 with a value for phospholipid over 319 mg/100 ml, so asterisks are shown for the rate at Exam 1.

B-tables

A B-table takes into account characterizations on all of the first eight examinations and the incidence of the event in the eight biennial

intervals of the 16-year follow-up and consolidates this into average annual incidence rate by age, sex, and level of characteristic. Four statistics are shown:

1) Person years

On each of the first eight examinations there are a number of persons in a specific sex-age group at risk according to the rules described for the A-tables. These numbers are summed and this sum is multiplied by two, because the interval between examinations is two years, and the result is labeled "person years." Contrary to the usual implication of this label, no account is taken of the fact that some persons are not at risk the full two years following an examination, either because they develop the event or die in the interval. Because some of the subjects in the Study were not at risk of death at Exam 1--they were added to the Study at Exam 2--they are excluded from the population at risk at Exam 1 if the event involves death (Tables 5-, 6-, 7-, 12-, 13-, 14-). See Section 1, page 1g-1, for a description of this group of subjects called volunteers.

2) Events

This is the number of subjects in the population at risk at an examination who develop the event in the interval between that examination and the next. The numbers developing the event in each of the two-year intervals are summed for the first eight examination intervals. Incidence in an A-table may not always be included in the paired B-table. Suppose a man free of preexisting coronary heart disease at Exam 1 develops angina pectoris between Exam 3 and Exam 4 and then develops

myocardial infarction between Exam 5 and Exam 6. In Table 3-1-A this man is counted in the incidence of myocardial infarction. He is not counted in Table 3-1-B because he was not in the population at risk at Exam 5, the beginning of the two-year interval in which he developed myocardial infarction.

3) Rate

The rate is given as the number of events per 10,000 person years and is obtained by taking half the average two-year incidence rate for the first eight examinations. In Table 12-1-B, for example, the number 8922 is shown as person years for men aged 35-44 at exam. The number 20 is shown as events, meaning that in the eight two-year periods following an examination at which they were aged 35 to 44 years 20 men died. The number 20 divided by the number 8922 gives 0.002241, the average annual mortality rate, which is shown in Table 12-1-B as 22 (per 10,000 population). Whenever for a particular level of the characteristic there are no persons at risk, zero is shown for "person years" and asterisks are shown for the rate. For example, in Table 1-9-B there are no women aged 45-54 at exam with a value for vital capacity over 49 deciliters at any examination, Exams 1 to 8, so asterisks are shown for the rate at level 50-54 and for the rate at level 55-61 deciliters.

4) Smoothed rate

The smoothed incidence rate is based on the mean of the individual probabilities of developing the event in the two years following examination. The individual probability is calculated for a subject according to his value of the characteristic at exam and to the values

for alpha and beta estimated in fitting the logistic function to the occurrence of the event in the sex-age group. For example, in Table 1-12-B for men aged 45-54 at exam the logistic parameters are A = -3.98002 and B = 0.464372. The probability of a man in this age group, classified as "definite" as to evidence of albumin in his urine sample, developing coronary heart disease in a two-year period is 0.0451622. This number is divided by two to express the two-year incidence as an annual rate and multiplied by 10,000 to give a rate of 225.8. The observed rate is shown as 240 in Table 1-12-B, and the smoothed rate is shown as 225.8.

The probability P is calculated as follows:

$$P = 1/[1 + \exp(-A-BX)] = 1/[1 + \exp(3.98002 - 0.46437 \times 2)]$$

(The value 2 has been assigned to the "definite" level of this characteristic: X = 2 in the above equation.)

Asterisks are shown for the smoothed rate whenever "person years" is zero or the logistic parameters have not been estimated. In the table for a two-level characteristic (-16, -17, and -19) if the incidence is zero for one of the levels, the smoothed rate is shown as 0.0 to match the observed rate and asterisks appear for the logistic parameters.

THE LOGISTIC PARAMETERS

The logistic parameters are shown by sex and age at exam for each of the first three examinations in an A-table and for the sum of the first eight examinations in a B-table.

The logistic parameters, shown as A and B in a table, are estimates of α and β in the logistic function

$$P = 1/[1 + \exp(-\alpha-\beta X)]$$

where P is the probability that the subject in the population at risk, characterized by known value X at exam, develops the event in the period following the examination. In the A-table the period following Exam 1 is 16 years, following Exam 2 is 14 years, and following Exam 3 is 12 years. In the B-table the period following an examination (Exam 1 through Exam 8) is two years.

Starting with some guessed value of α and β, say A_1 and B_1, and applying a weighted least-squares procedure to get the normal equations, estimates of α and β are obtained in the form

$$A = (\Sigma y_n \Sigma \overline{P}_n \overline{Q}_n x_n^2 - \Sigma x_n y_n \Sigma \overline{P}_n \overline{Q}_n x_n)/D$$

$$B = (\Sigma x_n y_n \Sigma \overline{P}_n \overline{Q}_n - \Sigma y_n \Sigma \overline{P}_n \overline{Q}_n x_n)/D$$

where

$$D = \Sigma \overline{P}_n \overline{Q}_n \Sigma \overline{P}_n \overline{Q}_n x_n^2 - (\Sigma \overline{P}_n \overline{Q}_n x_n)^2$$

Iterative solution of these expressions converges to within 0.0001 for A and B in tables for discrete characteristics -11, -12, -13, -14, -15, -18, to within 0.01 for A and 0.001 for B in tables for "continuous" characteristics -1 to -10.

For the nth individual, with characteristic value x_n, in the population at risk of event in the sex-age-exam group

$$\overline{P}_n = 1/[1 + \exp(-A_1 - B_1 x_n)]$$

$$\overline{Q}_n = 1 - \overline{P}_n$$

$$y_n = p_n - \overline{P}_n + \overline{P}_n \overline{Q}_n (A_1 + B_1 x_n)$$

$$p_n = 1 \text{ if individual develops event,}$$
$$= 0 \text{ if individual does not develop event in period following exam.}$$

The summation is over all individuals in the population at risk in the sex-age-exam group.[1]

Values have been assigned for the discrete variables. The levels are 0, 1, 2, and 3 for characteristic cigarettes smoked (-11); 0, 1, and 2 for characteristics -12, -13, -14, -15, -18; 0 and 1 for characteristics -16, -17, and -19. At one end of the scale, the value zero stands for "None" or "No."

No iteration is necessary to obtain A and B in tables for two-level characteristics -16, -17, and -19 if A_1 and B_1 are calculated from the logistic function.

$$A = A_1 = -\ln(1/P_0 - 1)$$
$$B = B_1 = -\ln(1/P_1 - 1) - A_1$$

where P_0 is incidence rate in level "No" and P_1 is incidence rate in level "Yes."

The variance of the beta-estimate is estimated by

$$\mathrm{Var}(B) = \Sigma \overline{P}_n \overline{Q}_n / D$$

The standard error of B, shown as SE(B) in a table, is the square root of the estimated variance.

This approach to the problem of estimation of the probability of an event as a function of some characteristic makes no assumption

1 Walker, S.H., and Duncan, D.B.: Estimation of the probability of an event as a function of several independent variables, Biometrika (1967), 54, 1 and 2, pages 167-179.

concerning the distribution of the characteristic, but it does assume that the logistic function is an appropriate model for incidence. This assumption appears reasonable for most of the event-characteristic pairs.

Asterisks are shown for the logistic parameters in a table whenever these have not been estimated. This happens for a particular sex-age-exam group if entire incidence is in only one level of the discrete variable (-11 to -19), if the number of subjects developing event is less than five for the continuous variable (-1 to -10), or if all incidence occurs in the "None" category for characteristic alcohol consumed (-10).

Given the estimated parameters of the logistic function, A and B in the table, the reader can calculate the probability of a person developing the event in the period following the examination at which he is characterized by a particular value. Suppose a man aged 36 years at Exam 1 has a systolic blood pressure of 180 mm Hg. What is the probability of his developing coronary heart disease in 16 years? Table 1-1-A shows a value of 0.022 for B and -4.994 for A, men age 35-44 at Exam 1.

$$P = 1/[1 + \exp(-A-BX)] = 1/[1 + \exp(4.994 - 0.022 \times 180)] = 0.262.$$

The probability of a man aged 38 years at Exam 2 with a systolic blood pressure of 180 mm Hg developing coronary heart disease in 14 years is 0.166, as calculated by

$$P = 1/[1 + \exp(4.491 - 0.016 \times 180)] = 0.166.$$

The probability of a man aged 40 years at Exam 3 with a systolic blood pressure of 180 mm Hg developing coronary heart disease in 12 years is

$$P = 1/[1 + \exp(4.671 - 0.016 \times 180)] = 0.143.$$

The probability of a man aged 44 years at some exam (Exams 1 to 8) with a systolic blood pressure of 180 mm Hg developing coronary heart disease in two years is 0.0144,

$$P = 1/[1 + \exp(6.567 - 0.013 \times 180)] = 0.0144.$$

These last values for A and B come from Table 1-1-B. The two-year average rate 0.0144 corresponds to average annual rate 72 per 10,000.

Coefficient B of the logistic function affords a measure of the association between increased risk of the event and elevated levels of the characteristic. The standard error of B, SE(B), gives us a means for testing whether the association is "significant." If the ratio B/SE(B) is 2 or greater or if the ratio is -2 or less, we say that B is really different from zero. This is called testing the null hypothesis at the 5 percent level of significance, where the null hypothesis is that no association exists between risk of event and level of characteristic. Using this procedure we would expect to be wrong (in our judgment that an association exists) five percent of the time when in fact no association exists. For example, in Table 1-1-B, men age 45-54 at exam, B has the value 0.015 and SE(B) the value 0.004. The ratio of 0.015 to 0.004 is greater than 2, so we say that there really is an association between increased risk of coronary heart disease and elevated levels of systolic blood pressure.

Because of limitations of space only three decimal places were allowed for printing B and SE(B). In some instances this results in too few significant digits to determine whether the ratio B/SE(B) is greater

than 2. For example, men aged 55-64 at exam in Table 1-5-B have 0.002 for B and 0.001 for SE(B). The ratio 0.002/0.001 is equal to 2, but unless we know the numbers carried out to several significant digits we cannot be sure that B/SE(B) is 2 or greater. In fact, B is 0.00167 and SE(B) is 0.00133, giving a ratio of 1.26, less than 2. Here we say that an association between risk of coronary heart disease and the level of phospholipid may exist but we are not willing to say so on the basis of the limited data at hand.

The numbers printed in the tables for the logistic parameters may satisfy the needs of the reader. Occasionally the reader may wish to have numbers showing more significant digits. The values for A, B, and SE(B) have been printed out to six significant digits, and these are available to the user of the tables in Section 26 upon request to the Biometrics Research Branch of the National Heart and Lung Institute, Bethesda, Maryland 20014.

CRITERIA FOR EVENTS

1. Coronary heart disease

A subject in the Study was diagnosed as having developed coronary heart disease (CHD) if upon review of the case a panel of investigators agreed on a definite manifestation of CHD: myocardial infarction, coronary insufficiency, angina pectoris, sudden death from CHD, non-sudden death from CHD. Persons with preexisting CHD at Exam 1 were excluded from the population at risk of developing CHD.

Preexisting CHD

Preexisting CHD at Exam 1 was identified by any one of the following diagnoses at Exam 1:

Definite angina pectoris
Definite history of myocardial infarction
Definite myocardial infarction by electrocardiogram
Doubtful myocardial infarction by electrocardiogram
Definite coronary insufficiency by electrocardiogram.

The various manifestations of CHD are these:

Myocardial infarction (see 3)

Coronary insufficiency

Coronary insufficiency was designated when a history of prolonged ischemic chest pain was accompanied by transient ischemic S-T segment and T-wave abnormality in the electrocardiographic tracing but not accompanied by development of Q-wave abnormality or by serum enzyme changes characteristic of muscle necrosis.

Angina pectoris

Brief recurrent chest discomfort of up to 15 minutes duration,

precipitated by exertion or emotion and relieved by rest or by nitroglycerine, was regarded as angina pectoris (AP) if two physicians interviewing the subject agreed that this condition was definitely present. This diagnosis was based on evaluation of a subjective manifestation; no abnormality in the electrocardiographic tracing after exercise or at rest was required.

Sudden death from CHD (see 5)

Nonsudden death from CHD (see 7)

2. Coronary heart disease other than angina pectoris

Because an interest is often expressed in the incidence of "heart attacks," this category is established to represent the occurrence of myocardial infarction, coronary insufficiency, or death from coronary heart disease.

3. Myocardial infarction

Recent or acute myocardial infarction (MI) was designated when there were serial changes in the electrocardiograms indicating the evolution of an infarction, including: S-T segment elevation in the electrocardiographic tracing (ECG) associated with later inversion of T waves and the loss of initial QRS potentials (that is, development of "pathologic" Q waves of 0.04 second duration or greater), followed by serial changes indicating reversion towards normal. An old or remote myocardial infarction was considered to be present when the ECG showed a stable pattern including a pathologic Q wave of 0.04 second or greater or loss of inital QRS potential (R wave) in those leads in which this would not be expected to occur. Also, an old MI was indicated when changes from a previous tracing showed development of loss of R-wave

potential or appearance of pathologic Q waves not otherwise explained. More weight was given to this finding if a T-wave abnormality was also associated.

Beginning in Exam 4, a hospital report for a subject showing a rise in the serum glutamic oxalacetic transaminase to a level of at least 60 units along with a history of prolonged ischemic chest pain was accepted as evidence of myocardial infarction. Subsequently, in 1962, pathologic elevation of another enzyme was included: lactic dehydrogenase greater than 500 units.

An autopsy report showing an acute, new, or recent infarction of the myocardium was accepted as evidence of MI. Because it is not possible to date an old MI found on autopsy such evidence was not included in the clinical diagnosis.

4. Angina pectoris uncomplicated

The event, angina pectoris uncomplicated, is defined as the occurrence of AP in the biennial interval between two exams with no other evidence of CHD in the same interval.

5. Sudden death from coronary heart disease

If a subject, apparently well, was observed to have died within a few minutes (operationally documented as under one hour) from onset of symptoms and if the cause of death could not reasonably be attributed to some potentially lethal disease other than coronary heart disease, this was called sudden death and was attributed to coronary heart disease.

6. Sudden and unexpected death from coronary heart disease

If a subject experienced sudden death and had no previous history of CHD, this was called sudden and unexpected death from coronary heart disease.

7. Nonsudden death from coronary heart disease

If the terminal episode lasted longer than one hour, if the available information implied that the cause of death was probably CHD, and if no other cause could be ascribed, this was called nonsudden death from CHD. In making this diagnosis the review panel used clinical information other than that concerning the final illness.

8. Cerebrovascular accident

The diagnosis of overt vascular disease of the brain was based on the occurrence of stroke. Minimal criteria for nonhemorrhagic stroke consisted of the sudden onset of a localizing neurologic deficit (such as hemiparesis, aphasia, homonymous hemianopia); for stroke due to intracranial hemorrhage, a change in the state of consciousness, headache, and signs of meningeal irritation in association with a bloody spinal fluid under increased pressure whether with or without other localizing neurological deficits. A diagnosis of embolus to the brain was made if a source for embolus (that is, atrial fibrillation, rheumatic heart disease with mitral stenosis, recent myocardial infarction, bacterial endocarditis) was present, the clinical course consistent (that is, rapid onset and clearing, slightly bloody spinal fluid, a more localized deficit), or the occurrence of associated peripheral emboli

elsewhere noted. A consultant neurologist and the clinical staff of the Study reviewed hospital and clinic protocols. Starting after Exam 8 they have examined patients in the hospital with stroke.

9. Atherothrombotic brain infarction

Specifically, thrombotic brain infarction was defined as the sudden onset of a localizing neurologic deficit (for example, aphasia, homonymous hemianopia, a central type of facial weakness, hemiparesis) documented by a physician, lasting longer than 24 hours, in the absence of: 1) known source of embolism (atrial fibrillation, rheumatic heart disease with mitral stenosis, myocardial infarction within preceding six months, bacterial endocarditis), 2) intracranial hemorrhage (intracerebral, subarachnoid), 3) known hypercoagulable states (for example, erythemia), 4) other disease processes causing focal brain deficits (brain tumor, subdural hematoma, hypoglycemia).

10. Intermittent claudication

Minimum criteria for the entirely subjective diagnosis of intermittent claudication consisted of a cramping discomfort in the calf clearly provoked by walking but not present on taking the first few steps, with the pain appearing sooner when walking quickly or uphill and being relieved within a few minutes by rest. Interviews for symptoms of claudication were conducted by the physician using structured forms for uniformity of the assessment. In addition, a panel of investigators reviewed all cases suspected of claudication over the first nine examinations to confirm the diagnosis.

11. Congestive heart failure

For each of the nine exams in the 16-year follow-up the examining physician recorded his final diagnostic impression of the subject taking that exam. After the round of examinations for Exam 8 was finished, two physicians and the statistician of the clinic staff formed a panel to review the records of all subjects ever diagnosed as having congestive heart failure (CHF), definite or doubtful, applying a set of strict criteria, as follows.

A definite diagnosis of CHF required a minimum of two major or one major and two minor criteria, the criteria existing concurrently. The minor criteria were used only when not attributable to some condition other than CHF.

Major criteria:

1) Paroxysmal nocturnal dyspnea.
2) Distended neck veins (in other than the supine position).
3) Rales in presence of unexplained dyspnea.
4) Cardiomegaly and pulmonary hilar congestion by X-ray (in absence of any left to right shunt) or increasing heart size.
5) Acute pulmonary edema described in hospital record.
6) Ventricular gallop.
7) Increased venous pressure (greater than 16 cm H_2O from right atrium).
8) Circulation time (greater than 24 seconds, arm to tongue).
9) Hepatojugular reflux.
10) Pulmonary edema, visceral congestion, cardiomegaly shown on autopsy.

Minor criteria:

1) Bilateral ankle edema.
2) Night cough.
3) Dyspnea on ordinary exertion.
4) Hepatomegaly.

Minor criteria (continued):

5) Pleural effusion.
6) Decrease in vital capacity by one-third from maximum recorded.
7) Tachycardia (120 beats per minute or more).

Arbitrary major or minor criterion:

Weight loss (ten pounds or more in five days) combined with improvement in respiratory symptoms in five days while on therapy for CHF.

12. Death

The fact of death was supported by a death certificate. Additional information was obtained from records supplied by hospital, attending physician, pathologist, or coroner. A panel of staff physicians reviewed all evidence to arrive at the cause of death.

13. Death from coronary heart disease (see 5 and 7)

For this event persons with coronary heart disease were not eliminated from the population at risk.

14. Death from cardiovascular disease other than coronary heart disease

DESCRIPTION OF CHARACTERISTICS

1. Blood pressure, first examiner, systolic (mm Hg)

2. Blood pressure, first examiner, diastolic (mm Hg)

Systolic and diastolic readings in the left arm of the subject were taken with a mercurial sphygmomanometer and a 14-cm cuff long enough to fit the most obese arm. The recommendations of American and British Heart Associations were followed for reading the pressure (see Standardization of Blood Pressure Readings, American Heart Journal, July 1939, 18:95). Palpatory method was used to check auscultatory systolic readings. Measurement was expressed in millimeters of mercury on the scale of the manometer, but because the original protocol had not specified the accuracy of the measurement to be employed most readings were made to the nearest even number, to the nearest multiple of 10, or the nearest multiple of five depending upon the individual examiner.

In 1951 a Committee of the American Heart Associaton recommended that diastolic blood pressure be recorded at the fifth Korotkoff phase instead of the fourth as had formerly been recommended. The protocol of the Framingham Heart Program was not explicit on this point and it is not clear what the practice was before 1951 or whether a change in recording was instituted after the appearance of the report.

At the beginning of the Study two readings were taken on each subject: 1) admission blood pressure presumably taken by the nurse when the subject was seated with his left arm at heart level and 2) final blood pressure taken by the examining physician after electrocardiographic tracing had been taken on the subject and before he sat up.

Beginning in April 1950 three readings were taken on each subject: 1) admission blood pressure taken by the nurse, 2) blood pressure taken by the examining physician at the start of his interview, and 3) blood pressure taken by a second examining physician. In coding blood pressure at Exam 1 for subjects through Record Number 2938 the admission blood pressure is shown as reading taken by the first examiner and the final blood pressure is shown as reading by the second examiner, thus showing as unknown the reading taken by the nurse.

Minor changes in procedure have occurred from one exam to the next. On Exam 4 the blood pressure taken by the nurse was not recorded. A second blood pressure reading by the same examining physician has been substituted for a reading by a second examiner.

3. Serum cholesterol (mg/100 ml)

At the beginning of the Study, the amount of cholesterol present in the serum of the subject's blood, in milligrams per 100 milliliters, was determined by the colorimetric method of Sperry (Schoenheimer and Sperry: J. Biol. Chem. 106, 745, 1934. Sperry: Am. J. Clin. Path. & Tech. Supplement 2, 91, 1938). On December 12, 1952 after the start of Exam 2, the method of Abell-Kendall was adopted (Abell, L.L., Levy, B.B., Brodie, B.B., and Kendall, F.E., J. Biol. Chem. 195, 357-366, 1952).

4. Hemoglobin (decigrams per 100 ml)

The amount of hemoglobin present in the subject's blood, in grams per 100 milliliters carried to one decimal place, was first determined

from using the reagent N/10 hydrochloric acid and reading the result from the scale on the measuring tube of a Hellige Hemometer. Later the procedure was changed to using the reagent 0.1 percent solution of sodium carbonate and reading the result in the Coleman Universal Spectrophotometer with the wavelength set at 540 millimicrons. Hemoglobin was measured on the first six exams, not on the seventh and eighth.

5. Phospholipid (mg/100 ml)

The amount of phospholipid present in the serum of the subject's blood, in milligrams per 100 milliliters, was first determined using the technique of Schmidt, Benotti, Hershman, Thannhauser (J. Biol. Chem. 166, 505, 1946). Later the determination was based on the method of Youngberg, G.E., and Youngberg, M.V. (J. Lab. & Clin. Med. 16: 158-166, 1930) with colorimetric determinations of Fiske, C.H., and Subbarow, Y. (J. Biol. Chem. 66: 375-400, 1925). Phospholipid was measured on Exams 1 to 4, 7 and 8, not on Exams 5 and 6.

6. Blood sugar (mg/100 ml)

The amount of glucose present in a casual specimen of the subject's whole blood (collected in a solution of potassium oxalate and sodium fluoride), in milligrams per 100 milliliters, was determined using the method of Nelson. (Nelson, B., J. Biol. Chem. 153, 375, 1944; Somogyi, M., J. Biol. Chem. 160, 61, 1945; Somogyi, M., J. Biol.Chem. 160, 69, 1945). Blood sugar was measured on Exams 1 to 4, 6 and 8, not on Exams 5 and 7.

7. Uric acid (mg/liter)

The amount of uric acid present in the serum of the subject's blood, in milligrams per 100 milliliters carried to one decimal place, was determined using the method of Folin. (Folin, O., J. Biol. Chem. 101, 111, 1933; Jacobsen, Ann. of Int. Med. 11, 1277, 1937-38). Uric acid was measured on the first four exams only.

8. Framingham relative weight (percent)

Body weight was measured to the next lower quarter-pound on clinical beam scales and height was measured to next lower quarter inch. The subject was wearing an examination gown after removing shoes and street dress--men wore their trousers. Relative weight at exam was computed for each subject by forming the ratio of his body weight in full pounds at that exam to the median weight for his particular sex-height group at Exam 1. The ratio was calculated to two decimal places rounded and then multiplied by 100 to show the relative weight as a percent rounded to the units place. The values for the median weight resulted from smoothing the series of median weights obtained for each height group in full inches at Exam 1, separately for men and women. The smooth median weight, by sex and height, is

Height (inches)	Weight (pounds) Men	Weight (pounds) Women	Height (inches)	Weight (pounds) Men	Weight (pounds) Women
55		126	65	156	144
56		127	66	160	147
57		128	67	164	151
58		129	68	168	155
59		131	69	172	
60	136	133	70	176	
61	140	135	71	180	
62	144	137	72	184	
63	148	139	73	188	
64	152	141	74	192	

Unknown values for relative weight occur at each exam because either the body weight was not measured at exam or a median weight was not assigned to that subject. Some subjects had no measurement for height due to a crippling condition and some subjects were either shorter or taller than the range of heights used in obtaining median weights.

9. Vital capacity (deciliters)

A nurse or technician instructed the subject to take the deepest breath possible and exhale to the fullest extent into a tube of a water-sealed spirometer (Collins Vitalometer). Three trials were made for each subject; the highest reading was recorded. This measurement of vital capacity was read to the next lower 0.1 liter on the scale of the spirometer. No adjustment was made for the possible variation in room temperature.

10. Alcohol consumed (ounces per month)

The use of alcoholic beverages by the subject was recorded by the examining physician on the medical history form at Exams 2, 4 and 7. The information consisted of three items:

A average number of highballs or cocktails per 30-day month
B average number of 8-ounce glasses of beer per 30-day month
C average number of 4-ounce glasses of wine per 30-day month

The equivalent alcohol in ounces per month was computed by

$$\text{Alcohol} = 1.00A + 0.40B + 0.67C$$

This was done only for subjects with details on all three items (A, B, and C) in the history form.

11. Cigarettes smoked (number per day)

Details on the use of tobacco by the subject were recorded by the examining physician on the medical history form in use at Exams 1 to 5, 7 and 8. In the initial stages of the Study several different history forms were used in the course of the first exam; a form developed in August 1950 was used for part of Exam 1 and part of Exam 2; a form developed in September 1952 was used for part of Exam 2, all of Exam 3, and part of Exam 4. Coding the information on tobacco usage was not done by exam for the first three exams. Instead, the aim was to characterize the Study group at Exam 1 or Exam 2, so far as possible, on the basis of lifetime history using the exam for which history form 8/50 was filled out because this form provided the most complete information available. Of the 5,209 subjects in the Study group, 96 percent had information available on form 8/50. The source of the data shown for Exam 1 in the tables was:

Number	History form used, in order of decreasing preference
2,815	Form 8/50, Exam 1
2,178	Form 8/50, Exam 2
87	Form 9/52, Exam 2
22	Form 11/49, Exam 1, Form 8/50 not available
37	Form 3/49, Exam 1, Form 8/50 not available
28	Form 9/52, Exam 3, first exam tobacco history available
9	Form 9/52, Exam 4, first exam tobacco history available
33	No tobacco data available
5,209	TOTAL

Tobacco history was not coded for Exams 2 or 3. The data for cigarette smoking used in the tables for Exams 4,5,7, and 8 came from the medical

histories taken by the examining physician at these exams respectively. Tobacco usage was not an item in the medical history for Exam 6.

12. Albumin in urine

Procedure for testing for the presence of albumin in subject's freshly voided urine was as follows.

To 10 cc of urine in test tube add 2 cc reagent (Quantitest reagents: beta naphthalene sulphonic acid and glacial acetic acid). Allow to stand. Result is read in milligrams of albumin per 100 milliliters by comparing turbidity with standards in lighted rack. In coding the result of the turbidity comparison, definite urine albumin is 20 mg/100 ml or higher; trace urine albumin is 10 mg/100 ml.

This measurement, though made, was not coded for Exam 4.

13. Sugar in urine

Procedure for testing for the presence of glucose in subject's freshly voided urine was as follows.

To five drops of urine in test tube add 10 drops of water and one Clinitest tablet. Allow to stand at least 15 seconds after boiling has ceased. Compare color to chart provided with tablets. Read as negative, 1+, 2+, 3+, or 4+.

In coding the result of the color comparison, definite urine sugar is 2+, 3+, or 4+; trace urine sugar is 1+.

14. Heart enlargement by X-ray

Roentgenograms were taken at each exam with a Westinghouse Autoflex 300-milliampere X-ray unit with a Machlett superdynamax tube. The subject was positioned erect in max-respiration phase with full anterior

chest against film cassette. The X-ray tube was placed at level of seventh thoracic vertebra, a distance of two meters from anode to film. The film size was 14 x 17 inches. Beginning in Exam 4 the machine was actuated by a device attached to the subject through electrodes applied to the left and right axillary margin at level of the seventh rib, to procure film at the moment of full diastole. (Peak of R wave plus 0.008 second to termination of exposure insured the shadow of the cardiac silhouette in full diastole.) The transthoracic Lead I electrocardiographic tracing showing point of X-ray exposure was printed at the base of the exposed X-ray film before development.

All films were interpreted by a roentgenology consultant who did not have access to clinical data on the subject before viewing his films. Beginning in early 1952 one consultant, Dr. Lloyd E. Hawes, has viewed all films taken at the Framingham Heart Clinic and made the X-ray interpretations.

The diagnosis of left ventricular hypertrophy signified that this chamber was enlarged as shown by an extension of the left apex of the heart towards the left, an elevation of the apex, and a squaring of the apex. The transverse diameter of the heart was usually more than half the transverse width of the chest. However, in a subject with a large chest the square prominent shape of the left apex of the heart may have signified left ventricular hypertrophy even with transverse diameter of the heart less than half the width of the chest. The diagnosis of left ventricular hypertrophy could be made with normal measurement of the transverse diameter of the heart.

The diagnosis of generalized cardiac enlargement was made for an enlarged heart when the heart shadow was also rounded and expanded both to the right and to the left, giving an appearance not that of left ventricular hypertrophy alone but either a dilatation of all chambers or a dilatation of the atria and right ventricle as in mitral heart disease.

A diagnosis of generalized cardiac enlargement and left ventricular hypertrophy was possible. The heart was overall rounded and enlarged, but the apex did project further out and was square and prominent.

A subject with heart enlargement had either generalized cardiac enlargement or left ventricular hypertrophy or both.

15. Left ventricular hypertrophy by electrocardiogram

Electrocardiograms were made at each exam with a Sanborn Visocardiette. The subject was in the recumbent position. Thirteen leads were used, three standard, three augmented unipolar limb leads, and seven precordial leads of Wilson. See description of technique, pages 31 to 44, Katz, Electrocardiography, Lea and Febiger, Philadelphia, 1947.

All abnormal and questionably abnormal electrocardiographic tracings were reviewed by an electrocardiology consultant, along with a sampling of normal tracings. Basically the criteria for definite and strongly suggestive evidence of myocardial disease were those listed on pages 194 and 195 of Burch and Winsor, Primer of Electrocardiography, Ed. 1, Lea and Febiger, Philadelphia, 1945.

Left ventricular hypertrophy consisted of a tracing exhibiting a slight prolongation of "ventricular activation time" (at least 0.05

second on the left) associated with an increased R-wave potential, depressed S-T segments and flattened to inverted T waves reflecting potentials from left precordial leads.

A category of possible ventricular hypertrophy was designated when tracings exhibited characteristics similar to those above except in less striking degree or when not all were present. Increased R-wave potential without associated S-T and T-wave abnormality was included in this category.

16. Definite nonspecific T-wave abnormality by electrocardiogram

Nonspecific T-wave abnormality was designated when in the presence of a prominent R wave S-T segment depression (exceeding one millimeter below the base line) and/or primary T-wave inversion or flattening--representing an abnormal ventricular gradient--was noted. This diagnosis was not made if a more specific explanation could be made for these changes or if the changes occurred in those leads where they are acceptable.

17. Diabetes mellitus

A review was made of the records of all subjects with a history of diabetes or elevated blood sugar or sugar in urine at any exam, Exams 1 to 9. Out of this group a subject was diagnosed as having diabetes if he was under treatment by his private physician for diabetes or if he had a record of an abnormal glucose tolerance test or if he had on at least two exams a casual blood sugar determination of 150 mg/100 ml or more.

Treatment by private physician meant that the subject was taking insulin or oral hypoglycemic agents. In addition, if subject was taking oral agents, the diagnosis of diabetes was made only if records were obtained from the Framingham Study, private physician, or hospital to show several elevated blood sugar determinations before treatment started. Here an elevated blood sugar meant a value of 160 mg/100 ml or higher.

The Study did not give subjects glucose tolerance tests. Therefore the record of such tests had to be obtained from a private physician or hospital. The standard glucose tolerance test was taken as the ingestion of 100 grams of glucose after a 12-hour fast. The test was considered abnormal if the blood glucose concentration was 160 mg/100 ml or more at one hour after challenge, 140 or more at two hours, and was still higher at three hours than when the test began.

18. Hypertension

At examination a subject had two blood pressure readings taken by the examining physician(s). If both readings were "abnormal," the subject had definite hypertension; if both readings were "normal," the subject had normotension; with any other combination of readings the subject had borderline hypertension.

A blood pressure reading was "abnormal" if either the systolic or the diastolic component was "abnormal," and the reading was "normal" if both systolic and diastolic parts were "normal." A systolic pressure was called "normal" when under 140 mm Hg, "abnormal" when 160 or greater. A diastolic pressure was called "normal" when under 90 mm Hg, "abnormal" when 95 or greater.

When a subject had only one blood pressure reading taken by the examining physician, his "hypertensive status" was determined on the basis of this one reading.

19. Glucose intolerance

A subject was said to demonstrate glucose intolerance at examination if any one of the following conditions obtained:

a) A diagnosis of diabetes mellitus at that examination or any preceding examination;

b) A determination of glucose in the urine sample, either definite or trace, at that examination;

c) A measurement of the amount of glucose present in a casual specimen of whole blood equal to 120 milligrams or more per 100 milliliters at that examination.

TABLES

TABLE 1-1-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	105	77	61	122	89	69	1091	1124	1081	26	21	17	24	19	16
074-109	35	71	91	2	3	3	57	42	33	101	204	247	3	5	2	30	25	8
110-119	115	163	190	8	10	17	70	61	89	234	310	312	6	4	6	26	13	19
120-129	183	215	246	18	17	11	98	79	45	279	267	263	6	2	4	22	7	15
130-139	236	203	181	26	20	11	110	99	61	212	180	138	4	4	0	19	22	0
140-149	154	123	99	24	14	8	156	114	81	120	83	66	3	2	1	25	24	15
150-159	56	49	37	11	7	6	196	143	162	68	43	28	2	4	2	29	93	71
160-169	41	22	20	4	2	2	98	91	100	46	17	14	1	0	0	22	0	0
170-179	23	12	9	7	3	1	304	250	111	18	9	6	1	0	1	56	0	167
180-189	7	6	8	3	1	2	429	167	250	6	8	2	0	0	0	0	0	0
190-300	8	5	2	2	0	0	250	0	0	7	3	5	0	0	1	0	0	200
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	155	145	128	220	199	180	870	891	925	96	69	56	110	77	61
074-109	23	49	53	2	6	2	87	122	38	23	50	104	0	0	3	0	0	29
110-119	82	119	134	10	16	20	122	134	149	66	128	163	2	5	5	30	39	31
120-129	145	163	160	29	31	28	200	190	175	140	153	172	6	9	6	43	59	35
130-139	136	163	141	31	34	26	228	209	184	174	178	167	13	11	10	75	62	60
140-149	123	106	105	30	29	23	244	274	219	133	129	103	15	12	10	113	93	97
150-159	76	60	53	13	13	11	171	217	208	109	93	83	16	8	5	147	86	60
160-169	50	30	32	14	3	9	280	100	281	77	60	50	12	7	4	156	117	80
170-179	30	14	18	11	5	3	367	357	167	56	31	39	11	8	8	196	258	205
180-189	18	12	7	6	3	4	333	250	571	41	33	19	8	3	2	195	91	105
190-300	22	14	8	9	5	2	409	357	250	51	36	25	13	6	3	255	167	120
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	91	107	107	276	238	202	426	592	701	78	98	93	183	166	133
074-109	9	24	47	4	3	7	444	125	149	13	17	26	3	4	4	231	235	154
110-119	24	52	75	3	8	8	125	154	107	17	38	54	1	4	1	59	105	19
120-129	51	72	97	7	17	23	137	236	237	40	64	111	5	6	9	125	94	81
130-139	64	97	99	15	19	20	234	196	202	66	84	124	5	10	14	76	119	113
140-149	57	64	63	15	18	12	263	281	190	61	79	90	7	8	9	115	101	100
150-159	49	48	57	16	13	14	327	271	246	65	103	88	12	14	10	185	136	114
160-169	23	36	34	8	8	9	348	222	265	44	70	60	9	19	12	205	271	200
170-179	22	19	17	9	6	5	409	316	294	41	44	55	14	6	8	341	136	145
180-189	11	12	15	4	4	2	364	333	133	24	31	36	6	6	7	250	194	194
190-300	20	26	27	10	11	7	500	423	259	55	62	57	16	21	19	291	339	333
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.022	0.016	0.016
SE(B)	0.006	0.007	0.007
A	-4.994	-4.491	-4.671
WOMEN			
B	-0.001	0.011	0.026
SE(B)	0.011	0.011	0.011
A	-3.563	-5.272	-7.408
AGE 45-54 AT EXAM			
MEN			
B	0.015	0.012	0.017
SE(B)	0.004	0.004	0.005
A	-3.414	-2.991	-3.736
WOMEN			
B	0.019	0.016	0.019
SE(B)	0.003	0.004	0.005
A	-4.968	-4.748	-5.354
AGE 55-64 AT EXAM			
MEN			
B	0.016	0.012	0.008
SE(B)	0.005	0.004	0.004
A	-3.378	-2.914	-2.467
WOMEN			
B	0.015	0.017	0.018
SE(B)	0.004	0.004	0.004
A	-3.901	-4.238	-4.587

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 1-1-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	36	40		12138	114	94		8258	173	209		2328	47	202	
074-109	718	1	14	27.9	742	4	54	57.8	494	3	61	108.7	120	1	83	136.3
110-119	1736	6	35	31.9	2036	10	49	67.7	1020	12	118	129.3	202	5	248	152.2
120-129	2308	11	48	36.2	2638	23	87	77.6	1512	22	146	150.3	326	7	215	164.3
130-139	2046	7	34	41.3	2638	20	76	89.7	1552	30	193	176.8	430	2	47	180.2
140-149	1172	3	26	46.9	1742	24	138	103.4	1246	26	209	206.4	394	14	355	195.8
150-159	522	4	77	53.6	1060	13	123	119.5	882	23	261	242.2	312	3	96	212.5
160-169	252	1	40	60.4	584	9	154	137.0	562	15	267	280.9	202	5	248	230.2
170-179	130	3	231	68.8	310	5	161	157.5	396	17	429	327.0	100	2	200	250.2
180-189	62	0	0	78.6	204	3	147	182.9	232	9	388	377.7	86	2	233	274.8
190-300	44	0	0	104.9	184	3	163	246.6	362	16	442	544.4	156	6	385	341.6
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	7	6		15680	43	27		11376	111	98		3532	45	127	
074-109	2024	0	0	2.5	1398	4	29	14.3	444	1	23	36.5	68	0	0	46.3
110-119	2962	0	0	3.6	2668	3	11	17.5	1034	2	19	45.3	200	1	50	56.8
120-129	2710	4	15	5.0	3082	7	23	20.7	1558	11	71	54.6	300	3	100	66.9
130-139	1786	0	0	7.0	3046	6	20	24.5	1904	10	53	66.0	504	5	99	80.9
140-149	898	1	11	9.8	1978	6	30	29.1	1666	12	72	79.8	576	7	122	95.3
150-159	454	1	22	13.4	1388	5	36	34.3	1526	13	85	96.4	514	5	97	113.5
160-169	218	0	0	18.4	792	3	38	40.6	1070	15	140	115.9	438	0	0	133.8
170-179	94	0	0	26.4	528	3	57	48.0	792	17	215	139.5	344	2	58	159.4
180-189	52	0	0	35.7	390	3	77	56.6	580	9	155	167.4	224	9	402	189.9
190-300	48	1	208	101.2	410	3	73	98.9	802	21	262	280.7	364	13	357	289.9
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.013	0.033	0.015	0.017	0.016	0.019	0.009	0.018
SE(B)	0.009	0.012	0.004	0.005	0.003	0.003	0.005	0.005
A	-6.567	-10.996	-5.976	-7.595	-5.510	-6.902	-4.479	-6.511

TABLE 1-2-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	105	77	61	122	89	69	1091	1124	1081	26	21	17	24	19	16	
020-069	44	79	92	3	5	2	68	63	22	103	205	229	0	6	3	0	29	13	MEN
070-074	108	136	152	2	6	6	19	44	39	198	251	263	5	3	4	25	12	15	B 0.048 0.034 0.038
075-079	71	92	116	6	7	8	85	76	69	136	154	188	6	2	3	44	13	16	SE(B) 0.008 0.010 0.011
080-084	194	207	185	19	14	16	98	68	86	275	248	179	3	3	1	11	12	6	A -6.202 -5.214 -5.753
085-089	112	101	126	18	15	5	161	149	40	102	106	97	3	1	2	29	9	21	
090-094	154	115	104	17	8	10	110	70	96	144	76	64	5	4	2	35	53	31	WOMEN
095-099	62	65	43	11	12	3	177	185	70	51	34	29	2	1	0	39	29	0	B 0.013 -0.005 0.034
100-104	63	32	35	15	1	7	238	31	200	50	27	19	1	1	0	20	37	0	SE(B) 0.016 0.020 0.018
105-109	11	21	15	3	2	2	273	95	133	11	13	5	1	0	1	91	0	200	A -4.818 -3.585 -6.777
110-160	39	21	15	11	7	2	282	333	133	21	10	8	0	0	1	0	0	125	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	155	145	128	220	199	180	870	891	925	96	69	56	110	77	61	
020-069	20	59	65	2	8	6	100	136	92	21	63	99	1	0	3	48	0	30	MEN
070-074	67	77	93	9	12	15	134	156	161	74	123	129	4	4	4	54	33	31	B 0.022 0.017 0.023
075-079	55	90	92	9	17	12	164	189	130	80	101	135	7	8	6	88	79	44	SE(B) 0.007 0.007 0.008
080-084	174	142	142	34	25	24	195	176	169	191	187	203	13	13	12	68	70	59	A -3.220 -2.812 -3.493
085-089	74	101	99	14	21	20	189	208	202	100	112	120	9	7	7	90	63	58	
090-094	127	109	86	37	23	20	291	211	233	159	124	89	16	9	8	101	73	90	WOMEN
095-099	56	57	59	16	18	13	286	316	220	69	55	59	7	8	6	101	145	102	B 0.040 0.034 0.028
100-104	69	53	31	16	13	4	232	245	129	77	51	38	14	7	3	182	137	79	SE(B) 0.007 0.008 0.009
105-109	21	16	18	4	2	9	190	125	500	26	21	15	3	4	2	115	190	133	A -5.734 -5.434 -5.100
110-160	42	26	26	14	6	5	333	231	192	73	54	38	22	9	5	301	167	132	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	91	107	107	276	238	202	426	592	701	78	98	93	183	166	133	
020-069	17	37	54	3	8	8	176	216	148	13	31	47	3	8	5	231	258	106	MEN
070-074	31	63	82	8	10	19	258	159	232	35	68	81	4	13	9	114	191	111	B 0.032 0.022 0.011
075-079	40	61	61	8	10	7	200	164	115	27	55	77	4	3	11	148	55	143	SE(B) 0.009 0.008 0.007
080-084	70	84	113	11	19	18	157	226	159	73	107	147	7	13	15	96	121	102	A -3.833 -3.037 -2.315
085-089	36	42	59	10	6	13	278	143	220	54	72	99	10	6	11	185	83	111	
090-094	53	67	60	21	21	19	396	313	317	80	87	97	14	13	12	175	149	124	WOMEN
095-099	22	29	35	4	9	7	182	310	200	34	57	53	6	9	11	176	158	208	B 0.024 0.024 0.020
100-104	26	29	20	9	8	6	346	276	300	49	49	40	12	10	5	245	204	125	SE(B) 0.008 0.008 0.008
105-109	7	7	16	3	3	1	429	429	63	12	20	24	3	6	4	250	300	167	A -3.673 -3.797 -3.637
110-160	28	31	31	14	13	9	500	419	290	49	46	36	15	17	10	306	370	278	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 1-2-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	36	40		12138	114	94		8258	173	209		2328	47	202	
020-069	724	0	0	18.4	746	7	94	56.3	640	9	141	130.1	276	3	109	149.1
070-074	1314	2	15	23.8	1478	11	74	66.5	1124	22	196	151.2	374	10	267	169.0
075-079	988	5	51	28.9	1232	10	81	75.1	866	14	162	169.1	256	3	117	182.0
080-084	2240	8	36	34.4	2928	18	61	83.6	1842	26	141	187.3	502	9	179	194.4
085-089	1206	7	58	41.6	1644	15	91	94.1	906	13	143	209.3	258	2	78	210.1
090-094	1174	4	34	49.9	1732	17	98	105.1	1170	39	333	231.9	294	9	306	224.8
095-099	546	3	55	59.4	828	15	181	117.5	542	10	185	257.6	104	1	96	240.7
100-104	456	5	110	70.4	840	7	83	130.3	570	19	333	284.2	130	7	538	256.9
105-109	132	0	0	85.3	268	5	187	146.9	164	3	183	317.7	30	1	333	282.4
110-160	210	2	95	120.8	442	9	204	181.1	434	18	415	394.1	104	2	192	329.7
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	7	6		15680	43	27		11376	111	98		3532	45	127	
020-069	1910	1	5	3.3	1412	5	35	13.6	742	5	67	51.2	280	1	36	54.0
070-074	2420	1	4	4.4	2446	3	12	17.2	1356	12	88	62.5	408	4	98	70.2
075-079	1592	0	0	5.3	1778	3	17	20.3	1050	11	105	72.0	320	4	125	84.6
080-084	2470	1	4	6.3	3638	5	14	23.6	2472	14	57	81.5	800	6	75	99.3
085-089	1104	0	0	7.7	1886	3	16	27.9	1418	9	63	93.2	358	2	56	119.4
090-094	878	1	11	9.2	2000	11	55	32.5	1774	23	130	106.2	572	11	192	141.0
095-099	360	3	83	11.0	794	1	13	37.7	754	7	93	120.9	274	4	146	166.9
100-104	290	0	0	13.1	806	4	50	43.9	860	9	105	136.7	278	3	108	196.3
105-109	100	0	0	16.2	258	3	116	52.2	282	6	213	156.7	52	2	385	234.2
110-160	122	0	0	26.8	662	5	76	76.9	668	15	225	205.4	190	8	421	336.5
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.037	0.037	0.023	0.032	0.022	0.027	0.015	0.035
SE(B)	0.013	0.027	0.007	0.010	0.005	0.007	0.010	0.010
A	-7.988	-9.714	-5.958	-7.940	-5.057	-6.279	-4.425	-6.787

TABLE 1-3-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	105	77	61	122	89	69	1091	1124	1081	26	21	17	24	19	16
096-189	140	171	173	6	7	4	43	41	23	210	333	330	5	10	6	24	30	18
190-204	94	99	115	10	4	7	106	40	61	133	206	187	2	2	4	15	10	21
205-219	57	136	141	2	8	9	35	59	64	85	151	155	0	0	2	0	0	13
220-234	108	143	131	18	11	5	167	77	38	98	135	131	0	0	1	0	0	8
235-249	50	93	99	7	9	8	140	97	81	50	90	96	2	1	1	40	11	10
250-264	50	69	75	7	9	6	140	130	80	46	56	56	2	0	0	43	0	0
265-279	28	53	45	3	8	6	107	151	133	22	55	36	1	3	1	45	55	28
280-294	18	31	37	5	9	6	278	290	162	16	28	29	1	1	1	63	36	34
295-309	12	20	23	3	3	4	250	150	174	6	17	25	0	1	0	0	59	0
310-696	17	28	31	5	6	5	294	214	161	3	15	14	1	1	1	333	67	71
UNKNOWN	284	26	13	39	3	1				422	38	22	12	2	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	155	145	128	220	199	180	870	891	925	96	69	56	110	77	61
096-189	76	95	89	12	8	6	158	84	67	73	101	107	7	8	1	96	79	9
190-204	59	95	84	17	13	15	288	137	179	41	89	96	1	4	6	24	45	63
205-219	50	110	128	10	20	21	200	182	164	55	114	114	2	5	1	36	44	9
220-234	65	124	115	15	24	20	231	194	174	83	143	136	8	6	3	96	42	22
235-249	47	105	89	6	26	17	128	248	191	41	109	133	4	9	12	98	83	90
250-264	38	68	80	4	19	21	105	279	263	35	81	96	2	10	9	57	123	94
265-279	25	45	46	6	11	10	240	244	217	40	75	75	4	5	3	100	67	40
280-294	26	38	31	7	13	5	269	342	161	30	55	54	4	5	5	133	91	93
295-309	14	19	17	3	2	9	214	105	529	24	30	36	1	4	7	42	133	194
310-696	10	19	21	4	6	4	400	316	190	38	65	66	7	11	9	184	169	136
UNKNOWN	295	12	11	71	3	0				410	29	12	56	2	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	91	107	107	276	238	202	426	592	701	78	98	93	183	166	133
096-189	50	80	95	9	13	16	180	163	168	13	27	35	2	5	8	154	185	229
190-204	32	59	51	8	19	10	250	322	196	19	41	46	4	5	6	211	122	130
205-219	29	69	87	7	12	17	241	174	195	22	48	64	3	6	5	136	125	78
220-234	40	57	68	16	15	12	400	263	176	46	96	92	8	15	11	174	156	120
235-249	24	47	72	4	9	12	167	191	167	28	68	84	4	11	7	143	162	83
250-264	18	54	72	4	11	17	222	204	236	38	73	97	9	7	13	237	96	134
265-279	15	26	27	2	5	5	133	192	185	28	62	88	3	11	15	107	177	170
280-294	10	21	25	6	8	3	600	381	120	20	45	51	4	7	2	200	156	39
295-309	9	18	19	5	8	9	556	444	474	19	37	52	4	11	10	211	297	192
310-696	6	12	13	3	7	6	500	583	462	27	75	82	7	17	15	259	227	183
UNKNOWN	97	7	2	27	0	0				166	20	10	30	3	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.010	0.012	0.012
SE(B)	0.003	0.002	0.003
A	-4.426	-5.237	-5.514
WOMEN			
B	0.011	0.006	0.004
SE(B)	0.007	0.005	0.006
A	-6.223	-5.408	-5.008
AGE 45-54 AT EXAM			
MEN			
B	0.003	0.010	0.009
SE(B)	0.003	0.002	0.003
A	-2.067	-3.628	-3.568
WOMEN			
B	0.005	0.009	0.014
SE(B)	0.003	0.003	0.003
A	-3.671	-4.636	-6.155
AGE 55-64 AT EXAM			
MEN			
B	0.009	0.008	0.005
SE(B)	0.004	0.003	0.003
A	-3.099	-3.054	-2.629
WOMEN			
B	0.004	0.005	0.002
SE(B)	0.003	0.002	0.002
A	-2.591	-2.871	-2.349

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 1-3-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	36	40		12138	114	94		8258	173	209		2328	47	202	
096-189	1524	3	20	18.7	1356	6	44	49.5	980	13	133	153.5	282	3	106	192.8
190-204	994	1	10	24.5	1204	8	66	61.8	844	10	118	171.6	276	7	254	197.2
205-219	1192	2	17	28.9	1740	7	40	70.8	1088	26	239	183.4	306	9	294	199.7
220-234	1318	4	30	34.1	1774	22	124	81.1	1234	28	227	196.4	366	10	273	202.1
235-249	976	3	31	40.1	1506	15	100	92.8	1146	24	209	209.4	268	3	112	204.7
250-264	776	6	77	46.7	1346	11	82	104.9	1024	18	176	223.7	274	5	182	207.3
265-279	552	7	127	54.9	960	11	115	120.3	676	17	251	239.0	214	2	93	209.9
280-294	402	2	50	65.0	660	5	76	138.3	430	9	209	255.3	182	3	165	212.5
295-309	246	2	81	77.0	380	7	184	157.3	292	12	411	272.5	64	4	625	215.2
310-696	338	3	89	139.6	524	16	305	237.0	296	8	270	314.5	78	1	128	219.8
UNKNOWN	672	3			688	6			248	8			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	7	6		15680	43	27		11376	111	98		3532	45	127	
096-189	2924	0	0	1.5	1488	1	7	15.4	440	6	136	59.3	94	1	106	37.7
190-204	1784	0	0	2.5	1442	3	21	17.6	578	2	35	67.1	138	1	72	52.1
205-219	1486	2	13	3.6	1776	6	34	19.2	870	6	69	72.4	246	0	0	61.0
220-234	1352	0	0	5.0	2184	2	9	20.8	1378	11	80	78.2	396	4	101	72.3
235-249	980	1	10	7.1	1930	6	31	22.7	1332	8	60	84.6	444	4	90	85.9
250-264	632	0	0	9.8	1642	3	18	24.6	1498	11	73	91.1	474	3	63	101.2
265-279	442	1	23	13.9	1384	1	7	26.7	1414	16	113	98.3	504	6	119	119.9
280-294	302	1	33	19.5	1022	3	29	29.1	1116	13	116	106.4	368	5	136	144.2
295-309	160	0	0	28.0	670	4	60	31.6	816	10	123	115.3	278	7	252	168.6
310-1124	182	2	110	119.4	1180	6	51	42.8	1506	22	146	141.9	540	13	241	257.9
UNKNOWN	1002	0			962	8			428	6			50	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.011	0.023	0.009	0.006	0.005	0.005	0.001	0.012
SE(B)	0.003	0.004	0.002	0.002	0.002	0.002	0.004	0.003
A	-7.465	-12.054	-6.181	-6.759	-4.252	-5.340	-3.365	-6.878

TABLE 1-4-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	105	77	61	122	89	69	1091	1124	1081	26	21	17	24	19	16	
067-119	18	25	17	1	1	1	56	40	59	180	274	242	2	2	4	11	7	17	MEN
120-124	13	43	25	0	4	1	0	93	40	112	245	188	3	5	4	27	20	21	B 0.020 0.006 0.035
125-129	24	60	29	0	6	1	0	100	34	98	161	170	3	4	5	31	25	29	SE(B) 0.011 0.010 0.012
130-134	61	125	92	6	10	4	98	80	43	86	194	209	1	3	1	12	15	5	A -4.917 -3.240 -7.672
135-139	93	125	108	16	10	5	172	80	46	94	106	120	4	3	0	43	28	0	
140-144	103	147	133	5	10	7	49	68	53	47	44	70	0	0	1	0	0	14	WOMEN
145-149	68	106	193	9	12	11	132	113	57	5	20	28	0	0	1	0	0	36	B 0.001 0.023 -0.016
150-154	84	101	109	12	12	9	143	119	83	8	15	14	0	1	1	0	67	71	SE(B) 0.023 0.021 0.022
155-159	43	55	98	5	5	13	116	91	133	2	8	6	0	1	0	0	125	0	A -3.954 -6.999 -2.135
160-216	50	50	62	8	4	7	160	80	113	5	3	1	0	0	0	0	0	0	
UNKNOWN	301	32	17	43	3	2				454	54	33	13	2	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	155	145	128	220	199	180	870	891	925	96	69	56	110	77	61	
067-119	11	30	15	1	2	0	91	67	0	77	173	150	4	16	5	52	92	33	MEN
120-124	21	44	28	7	9	4	333	205	143	87	192	158	10	11	7	115	57	44	B -0.007 0.021 0.021
125-129	20	41	28	3	4	2	150	98	71	65	130	144	5	8	9	77	62	63	SE(B) 0.010 0.008 0.009
130-134	43	104	92	11	15	17	256	144	185	75	176	184	5	13	13	67	74	71	A -0.347 -4.390 -4.499
135-139	62	99	86	16	21	11	258	212	128	67	87	131	7	8	11	104	92	84	
140-144	78	119	134	11	28	23	141	235	172	34	48	63	3	3	3	88	63	48	WOMEN
145-149	49	101	125	11	20	25	224	198	200	15	23	48	1	3	4	67	130	83	B 0.026 0.015 0.030
150-154	46	88	82	9	18	23	196	205	280	10	12	18	2	2	2	200	167	111	SE(B) 0.015 0.012 0.012
155-159	28	43	63	4	10	14	143	233	222	3	5	8	1	2	1	333	400	125	A -5.636 -4.391 -6.611
160-216	33	43	45	6	13	8	182	302	178	1	3	4	1	1	1	1000	333	250	
UNKNOWN	314	18	13	76	5	1				436	42	17	57	2	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	91	107	107	276	238	202	426	592	701	78	98	93	183	166	133	
067-119	22	31	23	5	7	4	227	226	174	42	111	96	6	14	12	143	126	125	MEN
120-124	10	22	22	3	4	5	300	182	227	44	105	109	7	15	12	159	143	110	B 0.015 0.005 -0.003
125-129	12	32	32	3	8	7	250	250	219	39	92	100	4	11	16	103	120	160	SE(B) 0.011 0.009 0.009
130-134	31	72	47	4	15	9	129	208	191	50	128	173	13	31	23	260	242	133	A -3.102 -1.855 -0.899
135-139	33	69	76	12	21	20	364	304	263	38	57	87	8	5	12	211	88	138	
140-144	47	85	94	10	20	17	213	235	181	23	44	59	4	9	5	174	205	85	WOMEN
145-149	16	39	93	2	14	20	125	359	215	7	13	37	2	4	7	286	308	189	B 0.012 0.021 0.008
150-154	26	47	60	10	10	10	385	213	167	3	9	15	0	3	2	0	333	133	SE(B) 0.016 0.011 0.011
155-159	9	25	47	2	2	4	222	80	85	2	5	8	1	2	2	500	400	250	A -3.016 -4.337 -2.864
160-216	17	14	33	7	4	9	412	286	273	1	1	1	0	0	0	0	0	0	
UNKNOWN	107	14	4	33	2	2				177	27	16	33	4	2				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 1-4-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	36	40		12138	114	94		8258	173	209		2328	47	202	
067-119	136	1	74	14.1	148	1	68	66.4	218	4	183	180.7	48	0	0	132.2
120-124	206	1	49	18.3	264	2	76	71.5	164	5	305	187.5	16	0	0	140.6
125-129	272	2	74	20.8	286	1	35	75.0	230	5	217	190.7	44	0	0	151.3
130-134	686	3	44	24.6	820	5	61	79.2	620	12	194	195.1	98	1	102	160.6
135-139	892	1	11	29.0	1032	14	136	83.3	768	16	208	199.3	176	4	227	170.9
140-144	1288	0	0	33.2	1686	12	71	87.3	1280	17	133	203.1	322	7	217	181.9
145-149	1554	2	13	38.4	2080	18	87	91.6	1382	32	232	207.0	386	7	181	192.1
150-154	1286	8	62	44.9	1860	16	86	96.5	1210	25	207	211.3	494	10	202	205.0
155-159	980	7	71	52.1	1474	16	109	101.3	1042	26	250	215.4	342	9	263	216.8
160-216	950	8	84	68.2	1732	21	121	111.2	1054	23	218	223.8	374	8	214	243.0
UNKNOWN	740	3			756	8			290	8			28	1		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	7	6		15680	43	27		11376	111	98		3532	45	127	
067-119	1962	2	10	8.2	1646	3	18	14.7	940	7	74	69.5	182	3	165	88.2
120-124	1586	1	6	7.4	1722	4	23	18.5	1040	9	87	79.3	236	1	42	102.4
125-129	1550	0	0	7.0	1952	4	20	20.5	1294	12	93	85.0	346	3	87	109.3
130-134	2034	1	5	6.6	2756	6	22	22.9	2258	16	71	91.6	628	5	80	117.1
135-139	1444	2	14	6.3	2534	3	12	25.7	1854	19	102	99.0	620	8	129	125.3
140-144	814	1	12	6.0	1784	6	34	28.5	1560	19	122	106.5	632	14	222	133.7
145-149	428	0	0	5.7	1238	4	32	31.7	1014	10	99	114.3	414	5	121	142.9
150-154	188	0	0	5.4	588	1	17	35.6	512	7	137	123.4	228	2	88	152.9
155-159	78	0	0	5.1	200	2	100	39.5	260	5	192	133.0	124	1	81	163.4
160-216	34	0	0	4.8	156	2	128	47.0	150	1	67	149.5	66	2	303	181.9
UNKNOWN	1128	0			1104	8			494	6			56	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.030	-0.011	0.010	0.022	0.004	0.015	0.013	0.014
SE(B)	0.014	0.032	0.008	0.015	0.006	0.009	0.013	0.014
A	-9.317	-5.219	-5.482	-8.333	-3.761	-6.005	-5.057	-5.577

TABLE 1-5-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	105	77	61	122	89	69	1091	1124	1081	26	21	17	24	19	16
062-159	251	235	126	23	12	6	92	51	48	342	441	216	8	9	4	23	20	19
160-179	83	138	72	8	15	3	96	109	42	102	193	127	2	3	1	20	16	8
180-199	99	155	113	11	16	4	111	103	35	92	151	132	0	2	3	0	13	23
200-219	45	133	124	3	7	7	67	53	56	59	150	185	1	0	4	17	0	22
220-239	32	62	121	10	6	8	313	97	66	39	73	148	2	3	1	51	41	7
240-259	30	35	105	5	6	12	167	171	114	18	32	117	0	0	1	0	0	9
260-279	16	38	75	2	2	6	125	53	80	7	22	59	0	0	0	0	0	0
280-299	3	22	60	0	2	7	0	91	117	2	12	42	0	1	1	0	83	24
300-319	4	13	32	2	2	1	500	154	31	1	4	16	0	1	0	0	250	0
320-968	6	11	38	2	6	6	333	545	158	0	6	9	0	0	1	****	0	111
UNKNOWN	289	27	17	39	3	1				429	40	30	13	2	1			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	155	145	128	220	199	180	870	891	925	96	69	56	110	77	61
062-159	154	207	110	28	29	13	182	140	118	156	201	131	13	9	5	83	45	38
160-179	64	116	78	15	28	9	234	241	115	66	113	87	4	7	3	61	62	34
180-199	45	128	88	10	28	14	222	219	159	72	140	84	7	8	2	97	57	24
200-219	48	114	106	11	23	20	229	202	189	71	166	171	7	17	9	99	102	53
220-239	20	62	87	5	17	23	250	274	264	31	94	93	0	10	7	0	106	75
240-259	27	40	75	2	8	17	74	200	227	18	63	111	2	6	9	111	95	81
260-279	23	28	58	5	5	11	217	179	190	12	51	90	3	8	7	250	157	78
280-299	9	12	46	3	2	8	333	167	174	10	18	59	0	0	2	0	0	34
300-319	4	5	23	0	2	5	0	400	217	5	6	31	2	0	6	400	0	194
320-968	5	4	26	2	0	7	400	0	269	11	7	44	2	2	5	182	286	114
UNKNOWN	306	14	14	74	3	1				418	32	24	56	2	1			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	91	107	107	276	238	202	426	592	701	78	98	93	183	166	133
062-159	86	114	72	20	19	10	233	167	139	69	75	56	12	13	5	174	173	89
160-179	48	75	57	17	23	18	354	307	316	37	77	42	11	14	7	297	182	167
180-199	25	70	64	5	13	11	200	186	172	36	105	83	3	10	9	83	95	108
200-219	29	75	72	7	16	11	241	213	153	38	122	108	6	20	16	158	164	148
220-239	14	48	81	4	15	25	286	313	309	28	75	95	6	13	11	214	173	116
240-259	8	25	76	2	7	12	250	280	158	14	44	106	3	11	13	214	250	123
260-279	13	19	44	6	7	3	462	368	68	15	30	59	2	5	8	133	167	136
280-299	3	10	20	1	4	5	333	400	250	5	23	66	0	3	9	0	130	136
300-319	0	2	25	0	2	5	****	1000	200	7	9	41	3	3	7	429	333	171
320-968	2	3	18	1	0	7	500	0	389	6	9	32	2	3	7	333	333	219
UNKNOWN	102	9	2	28	1	0				171	23	13	30	3	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.007	0.006	0.007
SE(B)	0.002	0.002	0.002
A	-3.197	-3.515	-4.292
WOMEN			
B	0.000	0.000	-0.001
SE(B)	0.007	0.005	0.005
A	-3.988	-4.037	-3.872
AGE 45-54 AT EXAM			
MEN			
B	0.001	0.003	0.005
SE(B)	0.002	0.002	0.002
A	-1.590	-1.871	-2.504
WOMEN			
B	0.004	0.007	0.007
SE(B)	0.003	0.003	0.002
A	-3.096	-3.808	-4.329
AGE 55-64 AT EXAM			
MEN			
B	0.002	0.004	0.001
SE(B)	0.003	0.002	0.002
A	-1.375	-1.896	-1.499
WOMEN			
B	0.002	0.003	0.003
SE(B)	0.003	0.002	0.002
A	-1.786	-2.266	-2.665

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 1-5-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	36	40		12138	114	94		8258	173	209		2328	47	202	
062-159	1320	2	15	15.7	1130	8	71	47.1	698	6	86	172.1	60	1	167	200.2
160-179	654	2	31	21.2	636	2	31	56.8	450	7	156	181.6	64	0	0	201.0
180-199	942	2	21	25.3	818	6	73	63.7	572	14	245	187.8	46	0	0	201.5
200-219	906	0	0	29.9	1012	10	99	71.7	698	11	158	194.2	182	4	220	202.1
220-239	868	5	58	35.6	1200	6	50	80.3	892	30	336	200.6	210	7	333	202.6
240-259	934	3	32	41.6	1574	17	108	89.4	1188	25	210	207.1	460	11	239	203.1
260-279	928	3	32	48.9	1568	11	70	99.7	1240	25	202	213.9	458	8	175	203.7
280-299	638	6	94	57.3	1346	16	119	110.5	946	20	211	220.5	344	8	233	204.1
300-319	494	6	121	68.3	922	6	65	123.9	646	10	155	227.8	272	4	147	204.7
320-968	594	4	67	99.7	1186	24	202	160.0	656	17	259	243.2	214	4	187	205.5
UNKNOWN	712	3			746	8			272	8			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	7	6		15680	43	27		11376	111	98		3532	45	127	
062-159	2236	0	0	0.8	1322	2	15	21.8	590	6	102	62.6	30	0	0	27.9
160-179	982	0	0	1.5	762	0	0	22.2	440	2	45	69.8	44	0	0	36.9
180-199	1106	0	0	2.3	870	2	23	22.5	596	2	34	74.2	58	1	172	45.0
200-219	1292	1	8	3.5	1552	4	26	22.8	948	8	84	79.9	158	1	63	56.6
220-239	1246	1	8	5.2	1520	7	46	23.0	916	8	87	85.2	188	1	53	68.7
240-259	1184	1	8	7.7	1902	3	16	23.3	1246	12	96	90.5	382	3	79	82.2
260-279	892	1	11	11.4	1998	7	35	23.5	1508	16	106	96.2	574	6	105	98.4
280-299	614	2	33	16.8	1668	3	18	23.8	1422	7	49	102.5	586	6	102	118.2
300-319	364	0	0	24.7	1358	3	22	24.1	1374	21	153	109.0	666	8	120	140.9
320-968	264	1	38	56.1	1666	3	18	24.6	1870	23	123	123.8	782	18	230	207.3
UNKNOWN	1066	0			1062	9			466	6			64	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	0.008	0.020	0.006	0.001	0.002	0.003	0.000	0.010
SE(B)	0.002	0.007	0.001	0.003	0.001	0.002	0.003	0.003
A	-6.860	-11.467	-5.404	-5.508	-3.559	-4.806	-3.196	-6.512

TABLE 1-6-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	105	77	61	122	89	69	1091	1124	1081	26	21	17	24	19	16
029-059	15	20	17	1	1	0	67	50	0	12	18	20	0	0	0	0	0	0
060-069	152	137	145	16	16	10	105	117	69	149	176	171	8	5	3	54	28	18
070-079	212	313	318	28	21	24	132	67	75	287	396	390	5	12	5	17	30	13
080-089	181	211	220	14	18	13	77	85	59	236	301	305	3	2	5	13	7	16
090-099	71	105	111	10	12	6	141	114	54	91	128	110	2	1	2	22	8	18
100-109	30	38	41	3	5	2	100	132	49	33	45	33	1	0	1	30	0	30
110-119	17	13	11	4	0	1	235	0	91	14	17	15	0	0	0	0	0	0
120-129	6	2	6	0	0	1	0	0	167	5	7	5	0	0	0	0	0	0
130-139	5	5	3	0	1	1	0	200	333	2	1	4	0	0	0	0	0	0
140-524	4	5	4	1	0	1	250	0	250	4	5	7	2	1	1	500	200	143
UNKNOWN	165	20	7	28	3	2				258	30	21	5	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	155	145	128	220	199	180	870	891	925	96	69	56	110	77	61
029-059	11	15	13	2	4	2	182	267	154	5	10	13	0	1	1	0	100	77
060-069	100	98	100	22	22	20	220	224	200	86	121	121	6	7	11	70	58	91
070-079	150	245	220	36	51	39	240	208	177	168	255	327	17	20	21	101	78	64
080-089	127	179	208	22	21	32	173	117	154	192	281	262	16	24	13	83	85	50
090-099	79	102	90	11	21	21	139	206	233	87	112	113	9	5	6	103	45	53
100-109	19	34	41	4	10	7	211	294	171	45	46	35	5	5	1	111	109	29
110-119	13	23	13	5	4	2	385	174	154	14	23	21	2	2	1	143	87	48
120-129	2	7	5	1	4	1	500	571	200	6	2	4	0	0	0	0	0	0
130-139	6	2	1	2	0	0	333	0	0	2	4	5	0	0	1	0	0	200
140-524	14	16	14	7	6	3	500	375	214	8	13	14	2	3	1	250	231	71
UNKNOWN	184	9	6	43	2	1				257	24	10	39	2	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	91	107	107	276	238	202	426	592	701	78	98	93	183	166	133
029-059	8	9	6	3	5	1	375	556	167	5	15	12	0	4	3	0	267	250
060-069	38	61	75	9	20	15	237	328	200	33	60	58	6	15	9	182	250	155
070-079	88	136	154	26	36	29	295	265	188	93	157	200	18	19	23	194	121	115
080-089	67	117	130	20	21	25	299	179	192	88	164	220	13	20	24	148	122	109
090-099	35	56	85	7	5	15	200	89	176	53	95	93	10	16	12	189	168	129
100-109	12	20	30	3	6	12	250	300	400	24	46	51	5	9	7	208	196	137
110-119	8	17	18	3	5	3	375	294	167	4	9	18	0	2	5	0	222	278
120-129	3	7	13	3	3	2	1000	429	154	6	12	17	1	4	2	167	333	118
130-139	2	2	4	0	0	0	0	0	0	4	1	3	1	1	1	250	1000	333
140-524	9	13	13	4	4	4	444	308	308	13	16	21	4	5	6	308	313	286
UNKNOWN	60	12	3	13	2	1				103	17	8	20	3	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.005	0.003	0.003
SE(B)	0.007	0.008	0.006
A	-2.457	-2.593	-2.885
WOMEN			
B	0.014	-0.015	0.009
SE(B)	0.007	0.019	0.009
A	-4.799	-2.718	-4.877
AGE 45-54 AT EXAM			
MEN			
B	0.006	0.003	0.003
SE(B)	0.003	0.003	0.004
A	-1.788	-1.687	-1.739
WOMEN			
B	0.006	0.007	-0.008
SE(B)	0.006	0.005	0.009
A	-2.816	-3.104	-2.045
AGE 55-64 AT EXAM			
MEN			
B	0.005	0.001	0.005
SE(B)	0.005	0.004	0.003
A	-1.294	-1.251	-1.833
WOMEN			
B	0.003	0.004	0.007
SE(B)	0.004	0.003	0.003
A	-1.755	-1.988	-2.497

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 1-6-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	36	40		12138	114	94		8258	173	209		2328	47	202	
029-059	290	0	0	43.9	342	3	88	79.6	246	11	447	196.5	54	0	0	157.9
060-069	1716	7	41	42.0	2180	20	92	83.9	1320	22	167	200.8	414	8	193	170.8
070-079	2930	15	51	40.4	3916	37	94	88.3	2516	48	191	204.8	674	15	223	182.6
080-089	2086	6	29	38.8	2780	15	54	93.1	1986	42	211	208.9	522	8	153	195.6
090-099	918	5	54	37.3	1340	17	127	98.1	976	23	236	213.1	336	6	179	210.1
100-109	340	0	0	35.8	526	5	95	103.8	414	9	217	217.5	112	2	179	225.6
110-119	160	0	0	34.3	252	3	119	109.8	226	4	177	222.4	46	2	435	243.1
120-129	52	1	192	32.9	88	2	227	115.2	122	3	246	227.2	34	1	294	261.9
130-139	36	0	0	31.4	54	1	185	122.2	54	1	185	232.3	34	0	0	277.3
140-524	60	0	0	25.7	234	6	256	191.9	216	6	278	268.9	78	5	641	515.9
UNKNOWN	402	2			426	5			182	4			24	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	7	6		15680	43	27		11376	111	98		3532	45	127	
029-059	262	0	0	9.4	296	0	0	14.8	240	1	42	84.1	54	1	185	92.1
060-069	1874	2	11	8.0	2698	5	19	17.4	1454	26	179	87.5	414	6	145	101.4
070-079	3918	2	5	7.0	5228	11	21	20.2	3560	23	65	90.7	1118	10	89	110.6
080-089	2916	2	7	6.0	3936	11	28	23.3	3068	32	104	94.0	918	11	120	120.1
090-099	1010	1	10	5.2	1620	3	19	27.2	1376	7	51	97.6	462	10	216	130.8
100-109	334	0	0	4.5	628	0	0	31.6	616	4	65	101.5	238	3	126	142.0
110-119	140	0	0	3.8	300	2	67	37.2	268	6	224	105.5	80	0	0	156.4
120-129	52	0	0	3.3	102	0	0	43.0	190	1	53	109.5	88	0	0	169.9
130-139	20	0	0	2.7	42	0	0	50.9	58	0	0	114.1	28	0	0	183.3
140-524	58	0	0	1.4	160	4	250	211.1	252	5	198	155.5	90	3	333	360.8
UNKNOWN	662	0			670	7			294	6			42	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	-0.004	-0.015	0.006	0.016	0.002	0.004	0.008	0.009
SE(B)	0.012	0.032	0.003	0.003	0.003	0.003	0.003	0.004
A	-4.499	-5.425	-4.438	-6.675	-3.316	-4.285	-3.840	-4.453

TABLE 1-7-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: URIC ACID (MG/LITER)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	105	77	61	122	89	69	1091	1124	1081	26	21	17	24	19	16
005-029	29	15	22	3	1	1	103	67	45	187	169	170	6	4	2	32	24	12
030-034	36	41	29	6	4	1	167	98	34	119	208	255	1	6	5	8	29	20
035-039	74	51	63	9	2	3	122	39	48	124	271	266	2	4	8	16	15	30
040-044	77	136	147	6	10	10	78	74	68	111	219	209	4	4	1	36	18	5
045-049	90	155	183	7	14	11	78	90	60	66	117	87	1	1	0	15	9	0
050-054	97	151	172	10	11	12	103	73	70	22	56	44	0	0	0	0	0	0
055-059	73	120	138	12	14	12	164	117	87	23	28	20	0	0	1	0	0	50
060-064	43	87	65	2	9	4	47	103	62	6	9	3	0	0	0	0	0	0
065-069	29	51	29	4	6	5	138	118	172	4	4	4	0	0	0	0	0	0
070-104	24	35	22	6	2	1	250	57	45	5	4	1	0	0	0	0	0	0
UNKNOWN	286	27	13	40	4	1				424	39	22	12	2	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	155	145	128	220	199	180	870	891	925	96	69	56	110	77	61
005-029	22	16	8	4	2	1	182	125	125	88	99	102	4	7	6	45	71	59
030-034	27	23	25	3	2	5	111	87	200	70	113	157	5	8	9	71	71	57
035-039	45	66	48	6	10	8	133	152	167	77	171	200	11	14	9	143	82	45
040-044	50	101	120	11	18	16	220	178	133	72	175	184	5	12	10	69	69	54
045-049	71	118	146	12	22	26	169	186	178	76	118	130	8	5	9	105	42	69
050-054	58	115	133	16	27	26	276	235	195	36	82	84	3	8	8	83	98	95
055-059	56	108	92	11	21	15	196	194	163	15	60	40	1	7	4	67	117	100
060-064	35	78	78	8	18	22	229	231	282	13	26	9	2	5	0	154	192	0
065-069	21	47	30	6	8	4	286	170	133	8	8	4	1	0	0	125	0	0
070-104	24	46	19	6	14	4	250	304	211	3	7	2	0	1	1	0	143	500
UNKNOWN	296	12	12	72	3	1				412	32	13	56	2	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	91	107	107	276	238	202	426	592	701	78	98	93	183	166	133
005-029	8	8	5	1	0	1	125	0	200	26	58	53	4	8	4	154	138	75
030-034	18	20	14	5	5	1	278	250	71	37	72	98	6	14	11	162	194	112
035-039	26	44	53	7	11	9	269	250	170	49	101	132	11	17	19	224	168	144
040-044	37	57	84	9	15	15	243	263	179	59	117	166	15	15	17	254	128	102
045-049	37	76	104	13	18	21	351	237	202	36	94	114	4	13	24	111	138	211
050-054	35	78	104	12	23	19	343	295	183	27	59	62	4	14	7	148	237	113
055-059	33	61	85	4	13	10	121	213	118	15	37	34	2	8	7	133	216	206
060-064	17	53	42	4	11	17	235	208	405	3	18	16	0	2	1	0	111	63
065-069	12	26	25	5	7	10	417	269	400	3	10	10	1	1	1	333	100	100
070-104	10	19	12	4	4	4	400	211	333	3	6	6	1	3	1	333	500	167
UNKNOWN	97	8	3	27	0	0				168	20	10	30	3	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.010	0.009	0.020
SE(B)	0.010	0.011	0.013
A	-2.538	-2.803	-3.631
WOMEN			
B	-0.014	-0.043	-0.025
SE(B)	0.026	0.027	0.031
A	-3.348	-2.472	-3.208
AGE 45-54 AT EXAM			
MEN			
B	0.017	0.017	0.013
SE(B)	0.010	0.008	0.010
A	-2.212	-2.308	-2.164
WOMEN			
B	0.018	0.017	0.025
SE(B)	0.015	0.012	0.015
A	-3.066	-3.195	-3.730
AGE 55-64 AT EXAM			
MEN			
B	0.007	0.001	0.027
SE(B)	0.012	0.010	0.011
A	-1.324	-1.195	-2.756
WOMEN			
B	-0.000	0.009	0.013
SE(B)	0.016	0.011	0.012
A	-1.468	-2.014	-2.421

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 1-7-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: URIC ACID (MG/LITER)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	36	40		12138	114	94		8258	173	209		2328	47	202	
005-029	188	0	0	19.9	170	0	0	66.5	74	2	270	148.9	36	0	0	138.5
030-034	348	0	0	23.9	356	3	84	72.8	312	3	96	164.8	66	2	303	152.8
035-039	628	2	32	27.4	976	11	113	77.6	732	16	219	174.2	188	4	213	163.8
040-044	1384	5	36	31.1	1760	10	57	82.7	1328	25	188	186.1	438	6	137	179.0
045-049	1644	8	49	35.5	2340	20	85	88.2	1692	36	213	198.0	460	7	152	193.6
050-054	1568	5	32	40.5	2228	27	121	94.0	1396	24	172	210.4	388	7	180	208.6
055-059	1210	5	41	46.3	1632	12	74	100.6	1194	22	184	223.5	364	12	330	225.5
060-064	700	2	29	52.8	984	12	122	107.2	708	19	268	237.6	212	5	236	243.8
065-069	390	4	103	60.6	516	5	97	114.7	312	11	353	253.4	92	4	435	262.9
070-104	244	2	82	78.6	438	6	137	130.2	246	7	285	285.2	58	0	0	307.4
UNKNOWN	686	3			738	8			264	8			26	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	7	6		15680	43	27		11376	111	98		3532	45	127	
005-029	1826	1	5	7.4	2144	4	19	16.4	986	5	51	60.3	256	6	234	213.6
030-034	2292	1	4	7.0	2666	4	15	19.5	1566	15	96	72.3	440	9	205	171.7
035-039	2476	3	12	6.8	3348	11	33	22.1	2220	17	77	82.5	706	5	71	145.0
040-044	2006	1	5	6.6	3120	6	19	25.3	2560	26	102	94.8	756	10	132	121.6
045-049	886	1	11	6.4	1684	3	18	28.8	1744	16	92	109.1	650	11	169	101.7
050-054	382	0	0	6.2	956	4	42	32.9	976	11	113	124.9	342	2	58	84.8
055-059	224	0	0	6.0	416	1	24	37.4	462	7	152	142.7	192	0	0	73.1
060-064	66	0	0	5.9	198	1	51	42.3	220	5	227	162.3	62	1	161	60.7
065-069	32	0	0	5.7	98	0	0	48.8	132	0	0	186.3	36	0	0	51.2
070-104	26	0	0	5.4	28	1	357	56.9	58	3	517	229.9	24	0	0	35.2
UNKNOWN	1030	0			1022	8			452	6			68	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.027	-0.006	0.014	0.027	0.013	0.028	0.017	-0.037
SE(B)	0.016	0.045	0.009	0.018	0.008	0.010	0.015	0.018
A	-6.212	-6.357	-4.655	-6.408	-3.809	-5.136	-4.006	-2.156

TABLE 1-8-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	105	77	61	122	89	69	1091	1124	1081	26	21	17	24	19	16
052-084	98	84	73	5	2	0	51	24	0	196	196	174	3	2	3	15	10	17
085-089	77	76	82	8	5	4	104	66	49	128	149	159	3	2	3	23	13	19
090-094	104	113	92	6	12	6	58	106	65	153	179	166	2	4	5	13	22	30
095-099	120	133	140	13	13	10	108	98	71	153	155	142	2	1	0	13	6	0
100-104	107	102	117	13	5	5	121	49	43	120	110	130	3	2	1	25	18	8
105-109	112	105	115	19	9	7	170	86	61	96	92	84	6	3	1	63	33	12
110-114	88	99	106	18	15	14	205	152	132	64	60	60	2	4	0	31	67	0
115-119	57	62	57	9	9	5	158	145	88	45	57	44	2	0	2	44	0	45
120-124	40	41	43	7	1	4	175	24	93	29	38	37	0	0	0	0	0	0
125-226	50	49	53	6	5	5	120	102	94	96	75	75	3	3	2	31	40	27
UNKNOWN	5	5	5	1	1	1				11	13	10	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	155	145	128	220	199	180	870	891	925	96	69	56	110	77	61
052-084	55	63	63	8	8	8	145	127	127	68	81	92	6	4	2	88	49	22
085-089	48	49	52	8	6	6	167	122	115	56	73	86	4	8	3	71	110	35
090-094	99	81	80	16	8	13	162	99	163	83	89	109	3	4	5	36	45	46
095-099	97	118	89	21	19	10	216	161	112	123	119	141	9	10	5	73	84	35
100-104	107	107	116	24	25	21	224	234	181	127	126	120	17	7	11	134	56	92
105-109	117	103	103	31	20	22	265	194	214	100	101	99	12	12	10	120	119	101
110-114	67	88	81	16	23	19	239	261	235	78	81	80	8	7	8	103	86	100
115-119	50	54	59	9	17	15	180	315	254	61	67	58	9	4	5	148	60	86
120-124	21	28	26	6	6	4	286	214	154	52	45	34	6	2	1	115	44	29
125-226	39	35	39	15	13	10	385	371	256	119	106	103	22	11	6	185	104	58
UNKNOWN	5	4	3	1	0	0				3	3	3	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	91	107	107	276	238	202	426	592	701	78	98	93	183	166	133
052-084	43	45	43	10	9	6	233	200	140	29	40	50	3	4	6	103	100	120
085-089	23	31	42	4	6	8	174	194	190	25	37	45	5	3	4	200	81	89
090-094	31	44	57	6	6	7	194	136	123	38	56	62	8	11	8	211	196	129
095-099	53	78	81	16	17	15	302	218	185	45	73	98	6	11	9	133	151	92
100-104	48	63	82	13	22	22	271	349	268	51	83	100	11	11	13	216	133	130
105-109	33	57	74	10	12	15	303	211	203	39	55	82	7	14	14	179	255	171
110-114	39	55	75	9	13	13	231	236	173	46	62	55	12	10	5	261	161	91
115-119	24	38	34	9	9	9	375	237	265	43	42	60	5	6	12	116	143	200
120-124	17	19	19	6	6	5	353	316	263	29	49	40	4	8	2	138	163	50
125-226	15	17	23	6	5	6	400	294	261	79	94	107	17	20	20	215	213	187
UNKNOWN	4	3	1	2	2	1				2	1	2	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.024	0.015	0.025
SE(B)	0.007	0.009	0.009
A	-4.482	-3.857	-5.236
WOMEN			
B	0.014	0.015	-0.000
SE(B)	0.010	0.011	0.015
A	-5.136	-5.493	-4.122
AGE 45-54 AT EXAM			
MEN			
B	0.021	0.030	0.020
SE(B)	0.007	0.007	0.007
A	-3.412	-4.458	-3.537
WOMEN			
B	0.018	0.008	0.014
SE(B)	0.005	0.006	0.007
A	-4.089	-3.303	-4.174
AGE 55-64 AT EXAM			
MEN			
B	0.013	0.011	0.012
SE(B)	0.009	0.008	0.008
A	-2.335	-2.286	-2.627
WOMEN			
B	0.004	0.008	0.007
SE(B)	0.006	0.005	0.006
A	-1.942	-2.494	-2.683

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 1-8-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	PERSON YEARS	EVENTS	RATE	SMOOTHED* RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	36	40		12138	114	94		8258	173	209		2328	47	202	
052-084	768	0	0	21.8	970	6	62	61.8	678	15	221	146.7	254	3	118	142.6
085-089	734	3	41	26.2	920	3	33	70.0	552	10	181	164.9	190	1	53	160.9
090-094	980	5	51	29.3	1286	10	78	75.9	856	10	117	177.5	246	8	325	172.0
095-099	1418	1	7	33.2	1688	16	95	82.2	1312	20	152	190.6	336	2	60	183.8
100-104	1194	6	50	37.6	1836	16	87	89.2	1400	32	229	204.5	332	13	392	195.8
105-109	1176	6	51	42.2	1766	19	108	96.4	1148	19	166	219.3	296	3	101	207.9
110-114	1032	6	58	47.3	1396	14	100	104.4	928	24	259	235.2	306	6	196	222.9
115-119	638	3	47	53.2	894	11	123	113.0	594	20	337	252.2	160	4	250	236.0
120-124	432	1	23	60.2	560	9	161	122.6	426	9	211	271.1	84	3	357	253.9
125-226	566	5	88	79.7	758	8	106	145.4	332	13	392	320.0	122	3	246	289.6
UNKNOWN	52	0			64	2			32	1			2	1		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	7	6		15680	43	27		11376	111	98		3532	45	127	
052-084	1924	0	0	3.8	1692	3	18	18.8	916	5	55	70.9	394	5	127	129.0
085-089	1532	2	13	4.5	1666	4	24	21.1	870	10	115	77.6	226	1	44	128.6
090-094	1732	0	0	5.0	1934	5	26	22.7	1138	7	62	81.8	294	4	136	128.4
095-099	1582	2	13	5.5	2302	4	17	24.4	1588	10	63	86.5	450	5	111	128.2
100-104	1222	1	8	6.2	1964	2	10	26.1	1466	12	82	91.2	454	6	132	128.0
105-109	842	0	0	6.9	1600	7	44	28.1	1290	13	101	96.3	424	7	165	127.8
110-114	636	0	0	7.7	1214	3	25	30.1	1084	16	148	101.7	290	5	172	127.5
115-119	500	0	0	8.6	892	4	45	32.4	804	12	149	107.4	252	3	119	127.3
120-124	324	0	0	9.6	630	2	32	34.8	596	3	50	113.4	214	2	93	127.1
125-226	840	2	24	15.3	1690	9	53	47.2	1592	23	144	141.5	524	7	134	126.4
UNKNOWN	112	0			96	0			32	0			10	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.024	0.022	0.016	0.014	0.015	0.011	0.014	-0.000
SE(B)	0.011	0.016	0.007	0.007	0.006	0.004	0.011	0.008
A	-7.355	-8.946	-5.684	-6.726	-4.682	-5.125	-4.591	-3.603

TABLE 1-9-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	105	77	61	122	89	69	1091	1124	1081	26	21	17	24	19	16	
05-14	1	0	1	0	0	0	0	****	0	9	11	7	0	0	0	0	0	0	MEN
15-19	1	5	3	0	0	0	0	0	0	60	46	28	2	2	2	33	43	71	8 -0.006 -0.004 -0.022
20-24	12	13	10	1	3	1	83	231	100	234	190	189	12	7	2	51	37	11	SE(8) 0.016 0.018 0.020
25-29	43	45	30	5	6	1	116	133	33	414	476	411	8	9	11	19	19	27	A -1.743 -2.182 -1.721
30-34	155	124	133	19	6	8	123	48	60	284	309	332	4	2	2	14	6	6	
35-39	247	256	244	34	20	24	138	78	98	70	81	96	0	1	0	0	12	0	WOMEN
40-44	235	260	255	24	29	20	102	112	78	10	7	15	0	0	0	0	0	0	8 -0.092 -0.102 -0.078
45-49	116	119	141	18	9	3	155	76	21	2	2	1	0	0	0	0	0	0	SE(8) 0.037 0.042 0.047
50-54	33	38	56	3	3	4	91	79	71	1	0	0	0	0	0	0	****	****	A -1.310 -1.253 -2.004
55-61	5	7	9	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****	
UNKNOWN	10	2	1	1	1	0				7	2	2	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	155	145	128	220	199	180	870	891	925	96	69	56	110	77	61	
05-14	1	1	0	0	0	0	0	0	****	19	29	22	3	3	0	158	103	0	MEN
15-19	3	5	4	0	1	0	0	200	0	107	116	88	16	10	7	150	86	80	8 -0.007 -0.004 -0.010
20-24	24	15	17	8	2	1	333	133	59	326	300	306	40	26	29	123	87	95	SE(8) 0.014 0.015 0.015
25-29	73	71	81	16	12	16	219	169	198	274	308	333	24	22	15	88	71	45	A -1.020 -1.242 -1.150
30-34	170	199	191	33	41	39	194	206	204	122	121	152	13	7	5	107	58	33	
35-39	220	229	208	54	50	40	245	218	192	16	15	22	0	1	0	0	67	0	WOMEN
40-44	142	154	148	32	33	23	225	214	155	2	1	2	0	0	0	0	0	0	8 -0.039 -0.030 -0.048
45-49	52	43	48	8	3	5	154	70	104	0	0	0	0	0	0	****	****	****	SE(8) 0.022 0.024 0.027
50-54	15	11	11	2	3	3	133	273	273	0	0	0	0	0	0	****	****	****	A -1.145 -1.747 -1.571
55-61	2	2	2	1	0	0	500	0	0	0	0	0	0	0	0	****	****	****	
UNKNOWN	3	0	1	1	0	1				4	1	0	0	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	91	107	107	276	238	202	426	592	701	78	98	93	183	166	133	
05-14	0	3	4	0	1	1	****	333	250	26	44	52	8	10	7	308	227	135	MEN
15-19	3	12	7	1	5	0	333	417	0	82	140	148	17	33	30	207	236	203	8 -0.006 -0.009 -0.006
20-24	18	34	37	4	8	7	222	235	189	203	247	295	38	31	30	187	126	102	SE(8) 0.022 0.017 0.017
25-29	66	80	99	18	14	21	273	175	212	82	137	160	11	22	23	134	161	144	A -0.758 -0.868 -1.160
30-34	103	126	154	28	34	31	272	270	201	24	21	40	3	1	2	125	48	50	
35-39	91	133	155	27	33	34	297	248	219	4	2	5	0	0	0	0	0	0	WOMEN
40-44	34	45	57	10	8	11	294	178	193	0	0	0	0	0	0	****	****	****	8 -0.052 -0.054 -0.036
45-49	8	13	12	1	3	1	125	231	83	0	0	0	0	0	0	****	****	****	SE(8) 0.026 0.022 0.022
50-54	1	1	4	0	0	1	0	0	250	0	0	0	0	0	0	****	****	****	A -0.390 -0.489 -1.114
55-61	0	0	0	0	0	0	****	****	****	0	0	0	0	0	0	****	****	****	
UNKNOWN	6	3	2	2	1	0				5	1	1	1	1	1				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 1-9-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	36	40		12138	114	94		8258	173	209		2328	47	202	
05-14	6	0	0	37.7	10	0	0	211.0	26	1	385	272.6	14	0	0	257.3
15-19	28	0	0	38.1	72	1	139	169.4	112	4	357	254.4	76	2	263	240.5
20-24	98	1	102	38.6	298	2	67	144.0	462	8	173	240.7	256	4	156	224.0
25-29	340	2	59	39.0	1080	15	139	124.0	1450	35	241	226.6	570	12	211	209.0
30-34	1340	2	15	39.5	2742	30	109	106.7	2336	46	197	214.1	776	21	271	194.7
35-39	2438	10	41	39.9	3712	38	102	91.0	2354	51	217	202.0	456	7	154	181.2
40-44	2590	14	54	40.4	2760	19	69	78.2	1108	20	181	190.9	134	0	0	169.5
45-49	1384	7	51	40.8	1094	6	55	66.8	298	4	134	179.6	28	0	0	157.2
50-54	610	0	0	41.3	302	1	33	56.9	74	3	405	168.6	4	0	0	148.6
55-61	130	0	0	41.8	60	1	167	48.4	10	1	1000	160.9	2	0	0	137.9
UNKNOWN	26	0			8	1			28	0			12	1		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 55-74 AT EXAM			
TOTAL	11246	7	6		15680	43	27		11376	111	98		3532	45	127	
05-14	54	0	0	55.9	208	2	96	102.9	504	7	139	173.9	390	6	154	201.5
15-19	358	2	56	23.8	1190	4	34	57.9	2090	34	163	125.6	1026	16	156	146.1
20-24	1834	2	11	11.4	4510	22	49	35.5	4830	40	83	98.5	1456	19	130	114.0
25-29	4400	1	2	5.9	5984	13	22	22.0	3044	27	89	76.5	558	4	72	87.5
30-34	3322	1	3	3.0	3136	2	6	13.7	790	3	38	59.5	98	0	0	66.9
35-39	1082	1	9	1.5	572	0	0	8.1	100	0	0	46.0	4	0	0	53.5
40-44	144	0	0	0.7	56	0	0	4.9	2	0	0	34.8	0	0	*****	******
45-49	16	0	0	0.3	8	0	0	2.9	2	0	0	25.1	0	0	*****	******
50-54	2	0	0	0.1	0	0	*****	******	0	0	*****	******	0	0	*****	******
55-61	2	0	0	0.1	0	0	*****	******	0	0	*****	******	0	0	*****	******
UNKNOWN	32	0			16	0			14	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.002	-0.148	-0.033	-0.104	-0.013	-0.055	-0.015	-0.058
SE(B)	0.025	0.070	0.014	0.029	0.012	0.019	0.024	0.031
A	-4.911	-2.764	-2.777	-2.628	-2.701	-2.704	-2.719	-2.507

TABLE 1-10-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	105	77	61	122	89	69	1091	1124	1081	26	21	17	24	19	16	
NONE	0	119	116	0	13	8	****	109	69	0	329	308	0	4	2	****	12	6	MEN
000-009	0	252	270	0	18	15	****	71	56	0	448	442	0	13	11	****	29	25	B******* -0.011 -0.009
010-019	0	128	126	0	18	16	****	141	127	0	101	98	0	0	0	****	0	0	SE(B)****** 0.005 0.005
020-029	0	75	74	0	8	7	****	107	95	0	60	55	0	2	2	****	33	36	A******* -2.167 -2.454
030-039	0	45	53	0	3	2	****	67	38	0	35	32	0	0	0	****	0	0	
040-049	0	45	44	0	0	1	****	0	23	0	15	13	0	0	0	****	0	0	WOMEN
050-059	0	26	26	0	1	1	****	38	38	0	8	7	0	0	0	****	0	0	B******* -0.004 0.001
060-069	0	23	21	0	2	2	****	87	95	0	21	22	0	0	0	****	0	0	SE(B)****** 0.014 0.013
070-079	0	17	16	0	2	1	****	118	63	0	5	5	0	1	1	****	200	200	A******* -3.888 -4.122
080-457	0	57	56	0	1	1	****	18	18	0	10	9	0	0	0	****	0	0	
UNKNOWN	858	82	81	105	11	7				1091	92	90	26	1	1				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	155	145	128	220	199	180	870	891	925	96	69	56	110	77	61	
NONE	0	133	121	0	27	22	****	203	182	0	369	361	0	38	27	****	103	75	MEN
000-009	0	201	197	0	43	39	****	214	198	0	309	337	0	23	22	****	74	65	B******* -0.001 -0.003
010-019	0	77	76	0	16	14	****	208	184	0	53	54	0	2	2	****	38	37	SE(B)****** 0.003 0.003
020-029	0	55	60	0	12	13	****	218	217	0	34	38	0	1	1	****	29	26	A******* -1.348 -1.471
030-039	0	62	59	0	8	5	****	129	85	0	30	34	0	2	1	****	67	29	
040-049	0	34	33	0	5	1	****	147	30	0	16	17	0	1	1	****	63	59	WOMEN
050-059	0	27	23	0	6	5	****	222	217	0	4	3	0	0	0	****	0	0	B******* -0.018 -0.016
060-069	0	23	30	0	7	8	****	304	267	0	7	10	0	1	1	****	143	100	SE(B)****** 0.013 0.013
070-079	0	6	7	0	2	2	****	333	286	0	1	1	0	0	0	****	0	0	A******* -2.324 -2.595
080-457	0	47	40	0	8	6	****	170	150	0	7	7	0	0	0	****	0	0	
UNKNOWN	705	65	65	155	11	13				870	61	63	96	1	1				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	91	107	107	276	238	202	426	592	701	78	98	93	183	166	133	
NONE	0	99	115	0	31	28	****	313	243	0	294	342	0	54	50	****	184	146	MEN
000-009	0	135	154	0	32	33	****	237	214	0	178	213	0	24	24	****	135	113	B******* -0.006 -0.004
010-019	0	36	51	0	9	12	****	250	235	0	19	32	0	3	3	****	158	94	SE(B)****** 0.004 0.003
020-029	0	21	27	0	4	4	****	190	148	0	20	25	0	3	3	****	150	120	A******* -1.040 -1.282
030-039	0	33	39	0	5	5	****	152	128	0	19	20	0	3	3	****	158	150	
040-049	0	19	24	0	3	4	****	158	167	0	5	7	0	0	0	****	0	0	WOMEN
050-059	0	10	13	0	2	1	****	200	77	0	2	4	0	0	0	****	0	0	B******* -0.001 0.001
060-069	0	7	7	0	3	3	****	429	429	0	0	0	0	0	0	****	****	****	SE(B)****** 0.008 0.008
070-079	0	11	11	0	1	0	****	91	0	0	2	1	0	0	0	****	0	0	A******* -1.642 -1.909
080-457	0	34	43	0	6	8	****	176	186	0	5	5	0	1	1	****	200	200	
UNKNOWN	330	45	47	91	11	9				426	48	52	78	10	9				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 1-10-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	36	40		12138	114	94		8258	173	209		2328	47	202	
NONE	996	6	60	47.5	1754	12	68	87.7	1666	42	252	207.4	504	14	278	256.5
000-009	2250	9	40	47.6	2924	28	96	88.1	2064	39	189	206.8	638	14	219	249.6
010-019	1030	5	49	48.2	1252	10	80	89.2	740	15	203	204.7	210	5	238	224.3
020-029	590	2	34	48.7	812	9	111	90.3	476	5	105	202.6	164	2	122	199.8
030-039	434	2	46	49.1	866	7	81	91.3	572	14	245	201.0	180	5	278	184.2
040-049	366	1	27	49.7	588	3	51	92.5	414	8	193	198.6	104	3	288	162.6
050-059	156	2	128	50.3	256	5	195	93.5	170	1	59	196.8	68	0	0	146.7
060-069	262	1	38	50.7	486	9	185	94.5	322	7	217	195.0	88	1	114	134.1
070-079	140	2	143	51.3	242	0	0	95.9	144	3	208	192.9	44	0	0	117.3
080-457	544	3	55	54.2	954	9	94	102.1	588	11	187	184.4	196	2	102	75.1
UNKNOWN	2222	3			2004	22			1102	28			132	1		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	7	6		15680	43	27		11376	111	98		3532	45	127	
NONE	2518	2	8	5.4	4550	16	35	34.9	4830	54	112	102.2	1828	24	131	117.1
000-009	3744	2	5	5.7	5350	16	30	28.5	3386	33	97	100.7	966	13	135	120.2
010-019	850	1	12	7.2	1040	1	10	12.4	462	2	43	94.9	152	0	0	133.1
020-029	456	0	0	8.8	628	0	0	5.7	380	2	53	90.4	154	1	65	145.8
030-039	384	0	0	10.7	728	0	0	2.9	482	5	104	86.0	136	2	147	159.3
040-049	136	0	0	13.8	268	0	0	1.1	168	0	0	80.5	54	0	0	177.1
050-059	66	0	0	16.4	88	0	0	0.5	62	0	0	76.6	14	0	0	196.7
060-069	204	1	49	20.3	324	0	0	0.3	112	1	89	72.8	28	1	357	214.2
070-079	46	0	0	26.6	94	0	0	0.1	34	0	0	67.3	16	0	0	244.9
080-457	94	1	106	132.7	186	0	0	0.0	126	2	159	58.4	10	1	1000	334.4
UNKNOWN	2748	0			2424	10			1334	12			174	3		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.001	0.022	0.001	-0.080	-0.001	-0.006	-0.011	0.010
SE(B)	0.004	0.005	0.002	0.037	0.002	0.007	0.006	0.009
A	-4.647	-6.834	-4.025	-4.957	-3.140	-3.870	-2.917	-3.730

TABLE 1-11-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	105	77	61	122	89	69	1091	1124	1081	26	21	17	24	19	16
NONE	242	242	255	18	10	6	74	41	24	531	522	494	13	7	5	24	13	10
UNDER 20	147	144	139	16	11	6	109	76	43	356	376	371	5	6	6	14	16	16
20	252	253	258	35	24	22	139	95	85	152	173	163	6	6	4	39	35	25
OVER 20	213	224	226	35	31	26	164	138	115	44	47	47	2	2	2	45	43	43
UNKNOWN	4	6	5	1	1	1				8	6	6	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	155	145	128	220	199	180	870	891	925	96	69	56	110	77	61
NONE	271	266	258	47	36	33	173	135	128	593	576	560	69	47	38	116	82	68
UNDER 20	111	114	112	31	25	22	279	219	196	178	205	234	18	14	11	101	68	47
20	169	185	176	35	44	39	207	238	222	70	78	97	8	6	6	114	77	62
OVER 20	147	157	158	41	39	34	279	248	215	23	29	31	1	2	1	43	69	32
UNKNOWN	7	8	7	1	1	0				6	3	3	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	91	107	107	276	238	202	426	592	701	78	98	93	183	166	133
NONE	160	214	231	43	49	44	269	229	190	338	454	518	63	78	71	186	172	137
UNDER 20	65	84	106	20	24	26	308	286	245	62	94	125	9	12	12	145	128	96
20	68	96	122	16	17	17	235	177	139	16	29	38	4	6	7	250	207	184
OVER 20	34	54	70	11	17	20	324	315	286	8	11	16	1	1	2	125	91	125
UNKNOWN	3	2	2	1	0	0				2	4	4	1	1	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.292	0.413	0.546
SE(B)	0.095	0.114	0.134
A	-2.458	-3.061	-3.606
WOMEN			
B	0.203	0.448	0.474
SE(B)	0.218	0.228	0.251
A	-3.868	-4.379	-4.589
AGE 45-54 AT EXAM			
MEN			
B	0.164	0.247	0.214
SE(B)	0.077	0.080	0.083
A	-1.481	-1.742	-1.809
WOMEN			
B	-0.132	-0.074	-0.178
SE(B)	0.154	0.165	0.186
A	-2.024	-2.438	-2.647
AGE 55-64 AT EXAM			
MEN			
B	0.022	0.046	0.065
SE(B)	0.117	0.102	0.098
A	-0.989	-1.204	-1.443
WOMEN			
B	-0.060	-0.108	-0.023
SE(B)	0.208	0.180	0.164
A	-1.489	-1.590	-1.875

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 1-11-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	36	40		12138	114	94		8258	173	209		2328	47	202	
NONE	2800	4	14	18.9	4508	25	55	61.9	3970	71	179	183.7	1380	28	203	196.2
UNDER 20	1402	5	36	29.1	1738	14	81	80.5	1368	32	234	207.0	430	7	163	204.9
20	2444	13	53	44.7	2900	39	134	104.6	1614	36	223	233.1	288	7	243	213.9
OVER 20	2292	14	61	68.5	2928	34	116	135.8	1264	33	261	262.3	222	5	225	223.3
UNKNOWN	52	0			64	2			42	1			8	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	7	6		15680	43	27		11376	111	98		3532	45	127	
NONE	5176	2	4	3.7	8896	24	27	25.0	8122	80	98	100.0	2824	38	135	135.8
UNDER 20	3596	2	6	6.1	3718	9	24	28.5	1986	20	101	95.1	492	5	102	92.0
20	1776	2	11	10.1	2164	5	23	32.5	838	9	107	90.4	142	1	70	62.2
OVER 20	640	1	16	16.7	840	5	60	37.0	386	2	52	86.0	56	0	0	42.0
UNKNDWN	58	0			62	0			44	0			18	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.432	0.500	0.267	0.132	0.124	-0.051	0.045	-0.398
SE(B)	0.157	0.368	0.080	0.159	0.066	0.129	0.144	0.335
A	-5.572	-7.201	-4.380	-5.293	-3.267	-3.892	-3.198	-3.578

TABLE 1-12-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: ALBUMIN IN URINE

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	105	77	61	122	89	69	1091	1124	1081	26	21	17	24	19	16
NO	816	857	865	97	75	60	119	88	69	988	1079	1031	23	19	17	23	18	16
POSSIBLE	2	0	3	0	0	0	0	****	0	7	1	5	1	0	0	143	0	0
DEFINITE	21	6	11	5	1	1	238	167	91	72	40	42	1	2	0	14	50	0
UNKNOWN	19	6	4	3	1	0				24	4	3	1	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	155	145	128	220	199	180	870	891	925	96	69	56	110	77	61
NO	671	718	702	147	141	125	219	196	178	794	854	880	87	63	54	110	74	61
POSSIBLE	1	0	0	0	0	0	0	****	****	7	4	6	1	0	0	143	0	0
DEFINITE	24	10	9	7	4	3	292	400	333	59	31	38	6	5	2	102	161	53
UNKNOWN	9	2	0	1	0	0				10	2	1	2	1	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	91	107	107	276	238	202	426	592	701	78	98	93	183	166	133
NO	308	433	509	82	101	98	266	233	193	396	570	672	70	91	84	177	160	125
POSSIBLE	1	1	5	0	0	2	0	0	400	0	1	2	0	0	0	****	0	0
DEFINITE	14	13	15	6	5	6	429	385	400	22	17	24	7	6	8	318	353	333
UNKNOWN	7	3	2	3	1	1				8	4	3	1	1	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.399	0.367	0.083
SE(B)	0.263	0.551	0.541
A	-2.005	-2.344	-2.599
WOMEN			
B	-0.093	0.535	*******
SE(B)	0.431	0.381	******
A	-3.718	-4.022	*******
AGE 45-54 AT EXAM			
MEN			
B	0.180	0.502	0.418
SE(B)	0.230	0.326	0.357
A	-1.272	-1.409	-1.530
WOMEN			
B	-0.031	0.417	-0.125
SE(B)	0.218	0.255	0.377
A	-2.093	-2.534	-2.731
AGE 55-64 AT EXAM			
MEN			
B	0.340	0.337	0.549
SE(B)	0.277	0.290	0.260
A	-1.017	-1.192	-1.430
WOMEN			
B	0.388	0.513	0.608
SE(B)	0.238	0.260	0.224
A	-1.538	-1.662	-1.949

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 1-12-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: ALBUMIN IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	36	40		12138	114	94		8258	173	209		2328	47	202	
NO	8754	36	41	******	11852	109	92	91.7	7830	164	209	209.1	2186	43	197	198.1
POSSIBLE	20	0	0	******	42	0	0	144.4	74	1	135	209.6	16	1	625	234.0
DEFINITE	142	0	0	******	208	5	240	225.8	320	7	219	210.1	120	3	250	276.1
UNKNOWN	74	0			36	0			34	1			6	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	7	6		15680	43	27		11376	111	98		3532	45	127	
NO	10630	6	6	5.6	14958	39	26	25.9	10886	104	96	95.3	3364	39	116	116.4
POSSIBLE	90	0	0	10.9	134	0	0	41.9	112	1	89	127.9	32	1	313	223.7
DEFINITE	450	1	22	21.1	550	4	73	67.6	338	6	178	171.1	122	5	410	421.5
UNKNOWN	76	0			38	0			40	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	******	0.666	0.464	0.484	0.003	0.300	0.174	0.676
SE(B)	******	0.549	0.238	0.269	0.196	0.212	0.290	0.241
A	*******	-6.794	-3.980	-5.258	-3.132	-3.941	-3.188	-3.737

TABLE 1-13-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: SUGAR IN URINE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	105	77	61	122	89	69	1091	1124	1081	26	21	17	24	19	16	
																			MEN
NO	818	859	873	98	76	60	120	88	69	1055	1116	1073	24	21	17	23	19	16	B 0.412******* 0.498
POSSIBLE	13	2	0	2	0	0	154	0	****	7	0	0	0	0	0	0	****	****	SE(B) 0.368 ****** 0.552
DEFINITE	8	2	6	2	0	1	250	0	167	5	4	5	1	0	0	200	0	0	A -1.996******* -2.606
UNKNOWN	19	6	4	3	1	0				24	4	3	1	0	0				WOMEN
																			B 1.044**********
																			SE(B) 0.584 ****** ******
																			A -3.769**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	155	145	128	220	199	180	870	891	925	96	69	56	110	77	61	
																			MEN
NO	665	704	689	148	138	124	223	196	180	840	879	913	92	68	56	110	77	61	B -0.028 0.397 0.100
POSSIBLE	20	11	10	3	2	1	150	182	100	11	1	1	1	0	0	91	0	0	SE(B) 0.311 0.273 0.329
DEFINITE	11	13	12	3	5	3	273	385	250	9	9	10	1	0	0	111	0	0	A -1.257 -1.415 -1.521
UNKNOWN	9	2	0	1	0	0				10	2	1	2	1	0				WOMEN
																			B -0.039**********
																			SE(B) 0.485 ****** ******
																			A -2.097**********
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	91	107	107	276	238	202	426	592	701	78	98	93	183	166	133	
																			MEN
NO	309	437	512	82	102	101	265	233	197	404	572	684	73	92	87	181	161	127	B 0.452 0.448 0.382
POSSIBLE	9	1	4	4	0	0	444	0	0	5	4	1	1	0	0	200	0	0	SE(B) 0.385 0.338 0.289
DEFINITE	5	9	13	2	4	5	400	444	385	9	12	13	3	5	5	333	417	385	A -1.012 -1.191 -1.410
UNKNOWN	7	3	2	3	1	1				8	4	3	1	1	1				WOMEN
																			B 0.382 0.573 0.710
																			SE(B) 0.345 0.295 0.290
																			A -1.513 -1.659 -1.928

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 1-13-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: SUGAR IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	36	40		12138	114	94		8258	173	209		2328	47	202	
NO	8804	36	41	******	11802	109	92	92.1	7946	161	203	202.9	2214	39	176	177.2
POSSIBLE	48	0	0	******	114	1	88	135.4	54	2	370	290.1	14	1	714	377.9
DEFINITE	72	0	0	******	188	4	213	198.3	224	9	402	411.5	94	7	745	769.7
UNKNOWN	66	0			34	0			34	1			6	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	7	6		15680	43	27		11376	111	98		3532	45	127	
NO	11088	6	5	5.4	15466	41	27	26.4	11132	107	96	96.3	3456	42	122	121.1
POSSIBLE	20	0	0	29.3	46	0	0	61.3	50	1	200	138.9	10	0	0	262.9
DEFINITE	62	1	161	156.6	132	2	152	140.8	158	3	190	199.5	52	3	577	551.6
UNKNOWN	76	0			36	0			36	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	1.700	0.394	0.848	0.376	0.375	0.800	0.804
SE(B)	******	0.552	0.257	0.374	0.173	0.284	0.217	0.319
A	*******	-6.833	-3.975	-5.238	-3.163	-3.931	-3.304	-3.696

TABLE 1-14-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	105	77	61	122	89	69	1091	1124	1081	26	21	17	24	19	16
NO	765	770	806	84	68	53	110	88	66	951	1017	1011	22	17	14	23	17	14
POSSIBLE	26	34	41	7	2	5	269	59	122	55	39	36	2	1	0	36	26	0
DEFINITE	63	64	36	14	7	3	222	109	83	81	67	33	2	3	3	25	45	91
UNKNOWN	4	1	0	0	0	0				4	1	1	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	155	145	128	220	199	180	870	891	925	96	69	56	110	77	61
NO	561	634	629	121	120	111	216	189	176	620	673	747	60	47	41	97	70	55
POSSIBLE	22	39	41	7	12	9	318	308	220	59	76	100	7	5	5	119	66	50
DEFINITE	118	57	41	26	13	8	220	228	195	185	142	78	29	17	10	157	120	128
UNKNOWN	4	0	0	1	0	0				6	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	91	107	107	276	238	202	426	592	701	78	98	93	183	166	133
NO	241	349	436	65	80	81	270	229	186	250	356	455	37	47	46	148	132	101
POSSIBLE	15	41	45	1	9	12	67	220	267	34	76	107	7	10	13	206	132	121
DEFINITE	73	60	50	25	18	14	342	300	280	138	160	139	34	41	34	246	256	245
UNKNOWN	1	0	0	0	0	0				4	0	0	0	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.470	0.074	0.248
SE(B)	0.154	0.209	0.259
A	-2.075	-2.344	-2.638
WOMEN			
B	0.097	0.502	0.888
SE(B)	0.334	0.313	0.349
A	-3.730	-4.076	-4.308
AGE 45-54 AT EXAM			
MEN			
B	0.034	0.188	0.101
SE(B)	0.120	0.152	0.184
A	-1.280	-1.438	-1.534
WOMEN			
B	0.274	0.277	0.400
SE(B)	0.121	0.150	0.188
A	-2.236	-2.609	-2.882
AGE 55-64 AT EXAM			
MEN			
B	0.138	0.159	0.295
SE(B)	0.144	0.151	0.159
A	-1.032	-1.225	-1.467
WOMEN			
B	0.317	0.401	0.516
SE(B)	0.133	0.121	0.127
A	-1.744	-1.928	-2.227

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 1-14-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	36	40		12138	114	94		8258	173	209		2328	47	202	
NO	8168	31	38	39.4	10342	88	85	85.6	6422	123	192	190.7	1564	32	205	196.6
POSSIBLE	372	4	108	44.2	864	11	127	116.0	834	19	228	241.2	362	5	138	206.9
DEFINITE	440	1	23	49.5	924	14	152	156.8	1000	31	310	304.4	402	10	249	217.8
UNKNOWN	10	0			8	1			2	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	7	6		15680	43	27		11376	111	98		3532	45	127	
NO	10340	5	5	4.6	12730	31	24	24.5	7236	49	68	71.8	1734	18	104	94.0
POSSIBLE	398	0	0	12.8	1362	5	37	33.5	1822	26	143	110.3	650	5	77	129.1
DEFINITE	492	2	41	35.5	1576	7	44	45.8	2310	36	156	168.6	1148	22	192	176.9
UNKNOWN	16	0			12	0			8	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.115	1.026	0.310	0.314	0.246	0.437	0.053	0.324
SE(B)	0.328	0.439	0.137	0.201	0.101	0.107	0.189	0.168
A	-4.836	-6.992	-4.051	-5.313	-3.228	-4.229	-3.196	-3.955

TABLE 1-15-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	105	77	61	122	89	69	1091	1124	1081	26	21	17	24	19	16	
																			MEN
NO	834	836	853	102	74	59	122	89	69	1081	1105	1062	26	21	17	24	19	16	B -0.007 -0.156 -0.164
POSSIBLE	15	25	25	2	3	2	133	120	80	7	15	15	0	0	0	0	0	0	SE(B) 0.435 0.522 0.658
DEFINITE	9	8	5	1	0	0	111	0	0	3	4	4	0	0	0	0	0	0	A -1.970 -2.324 -2.595
UNKNOWN	0	0	0	0	C	0				0	0	0	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	155	145	128	220	199	180	870	891	925	96	69	56	110	77	61	
																			MEN
NO	672	685	664	142	131	114	211	191	172	839	848	889	89	63	53	106	74	60	B 0.542 0.409 0.487
POSSIBLE	18	24	27	7	7	7	389	292	259	15	30	25	3	3	3	200	100	120	SE(B) 0.238 0.213 0.216
DEFINITE	15	21	20	6	7	7	400	333	350	16	13	11	4	3	0	250	231	0	A -1.311 -1.439 -1.573
UNKNOWN	0	0	0	0	C	0				0	0	0	0	0	0				WOMEN
																			B 0.551 0.579 0.040
																			SE(B) 0.270 0.3C4 0.500
																			A -2.129 -2.529 -2.744
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	91	107	107	276	238	202	426	592	701	78	98	93	183	166	133	
																			MEN
NO	300	405	477	74	89	91	247	220	191	410	537	629	73	85	76	178	158	121	B 0.877 0.584 0.493
POSSIBLE	13	24	27	6	8	4	462	333	148	6	32	41	2	4	7	333	125	171	SE(B) 0.245 0.208 0.193
DEFINITE	17	21	27	11	10	12	647	476	444	10	23	31	3	9	10	300	391	323	A -1.114 -1.267 -1.468
UNKNOWN	0	0	0	0	C	0				0	0	0	0	0	0				WOMEN
																			B 0.400 0.470 0.585
																			SE(B) 0.326 0.210 0.189
																			A -1.525 -1.694 -1.993

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 1-15-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	36	40		12138	114	94		8258	173	209		2328	47	202	
NO	8680	34	39	39.6	11390	103	90	90.2	7398	137	185	180.9	1994	37	186	183.7
POSSIBLE	246	2	81	49.3	502	6	120	131.5	508	11	217	340.1	182	4	220	261.5
DEFINITE	64	0	0	61.4	246	5	203	191.0	352	25	710	621.1	152	6	395	369.8
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	7	6		15680	43	27		11376	111	98		3532	45	127	
NO	11052	6	5	5.3	15156	40	26	26.1	10370	91	88	87.2	3066	29	95	99.5
POSSIBLE	138	0	0	27.8	382	1	26	52.5	636	9	142	158.1	278	9	324	215.1
DEFINITE	56	1	179	144.3	142	2	141	105.4	370	11	297	283.1	188	7	372	452.6
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.221	1.670	0.386	0.707	0.665	0.609	0.370	0.795
SE(B)	0.615	0.580	0.211	0.371	0.116	0.156	0.222	0.195
A	-4.830	-6.857	-3.997	-5.252	-3.282	-4.031	-3.267	-3.897

TABLE 1-16-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	105	77	61	122	89	69	1091	1124	1081	26	21	17	24	19	16
NO	840	851	859	102	75	59	121	88	69	1074	1109	1068	25	21	17	23	19	16
YES	18	18	24	3	2	2	167	111	83	17	15	13	1	0	0	59	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	155	145	128	220	199	180	870	891	925	96	69	56	110	77	61
NO	684	709	687	145	135	121	212	190	176	849	858	894	91	68	55	107	79	62
YES	21	21	24	10	10	7	476	476	292	21	33	31	5	1	1	238	30	32
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	91	107	107	276	238	202	426	592	701	78	98	93	183	166	133
NO	320	431	501	87	100	96	272	232	192	414	561	653	74	91	80	179	162	123
YES	10	19	30	4	7	11	400	368	367	12	31	48	4	7	13	333	226	271
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.370	0.257	0.209
SE(B)	0.641	0.760	0.751
A	-1.979	-2.337	-2.607
WOMEN			
B	0.964	**********	
SE(B)	1.050	******	******
A	-3.737	**********	
AGE 45-54 AT EXAM			
MEN			
B	1.218	1.352	0.655
SE(B)	0.447	0.447	0.460
A	-1.313	-1.447	-1.543
WOMEN			
B	0.957	-1.013	-0.676
SE(B)	0.524	1.023	1.026
A	-2.120	-2.453	-2.725
AGE 55-64 AT EXAM			
MEN			
B	0.580	0.658	0.893
SE(B)	0.658	0.489	0.396
A	-0.985	-1.197	-1.440
WOMEN			
B	0.832	0.410	0.978
SE(B)	0.626	0.445	0.346
A	-1.525	-1.642	-1.969

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 1-16-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	36	40		12138	114	94		8258	173	209		2328	47	202	
NO	8768	31	35	35.4	11624	106	91	91.2	7770	157	202	202.1	2142	39	182	182.1
YES	222	5	225	225.2	514	8	156	155.6	488	16	328	327.9	186	8	430	430.1
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	7	6		15680	43	27		11376	111	98		3532	45	127	
NO	11048	7	6	6.3	15160	40	26	26.4	10722	103	96	96.1	3260	36	110	110.4
YES	198	0	0	0.0	520	3	58	57.7	654	8	122	122.3	272	9	331	330.9
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	1.891	*******	0.548	0.789	0.511	0.247	0.912	1.144
SE(B)	0.492	******	0.372	0.602	0.271	0.372	0.404	0.384
A	-4.945	*******	-3.986	-5.239	-3.167	-3.933	-3.276	-3.790

TABLE 1-17-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: DIABETES MELLITUS

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	105	77	61	122	89	69	1091	1124	1081	26	21	17	24	19	16	
																			MEN
NO	846	859	873	103	77	60	122	90	69	1083	1118	1075	25	20	16	23	18	15	B 0.367******* 0.409
YES	12	10	10	2	0	1	167	0	100	8	6	6	1	1	1	125	167	167	SE(B) 0.782 ****** 1.063
																			A -1.976******* -2.606
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 1.799 2.396 2.583
																			SE(B) 1.088 1.118 1.124
																			A -3.745 -4.006 -4.192
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	155	145	128	220	199	180	870	891	925	96	69	56	110	77	61	
																			MEN
NO	683	705	690	147	135	122	215	191	177	849	876	904	91	66	53	107	75	59	B 0.734 1.035 0.622
YES	22	25	21	8	10	6	364	400	286	21	15	21	5	3	3	238	200	143	SE(B) 0.453 0.419 0.493
																			A -1.294 -1.440 -1.538
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 0.957 1.121 0.984
																			SE(B) 0.524 0.658 0.639
																			A -2.120 -2.507 -2.776
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	91	107	107	276	238	202	426	592	701	78	98	93	183	166	133	
																			MEN
NO	316	432	510	85	101	100	269	234	196	414	567	673	74	90	85	179	159	126	B 0.712 0.494 0.718
YES	14	18	21	6	6	7	429	333	333	12	25	28	4	8	8	333	320	286	SE(B) 0.555 0.513 0.476
																			A -1.000 -1.187 -1.411
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 0.832 0.914 1.018
																			SE(B) 0.626 0.444 0.434
																			A -1.525 -1.668 -1.934

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 1-17-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: DIABETES MELLITUS

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	36	40		12138	114	94		8258	173	209		2328	47	202	
NO	8896	36	40	40.5	11788	108	92	91.6	7866	161	205	204.7	2172	41	189	188.8
YES	94	0	0	0.0	350	6	171	171.4	392	12	306	306.1	156	6	385	384.6
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	7	6		15680	43	27		11376	111	98		3532	45	127	
NO	11168	6	5	5.4	15404	40	26	26.0	10974	103	94	93.9	3330	41	123	123.1
YES	78	1	128	128.2	276	3	109	108.7	402	8	199	199.0	202	4	198	198.0
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	3.197	0.643	1.448	0.424	0.773	0.753	0.491
SE(B)	******	1.092	0.427	0.605	0.309	0.374	0.454	0.534
A	*******	-6.835	-3.981	-5.255	-3.154	-3.956	-3.238	-3.679

TA8LE 1-18-A

INCIOENCE OF EVENT AFTER SPECIFIEO EXAM*, 8Y SEX, AGE, ANO LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: HYPERTENSICN

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIOENCE			RATE PER 1000			LCGISTIC PARAMETERS
EXAM NUM8ER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	105	77	61	122	89	69	1091	1124	1081	26	21	17	24	19	16	
																			MEN
NO	379	499	593	32	35	27	84	70	46	707	872	870	14	13	12	20	15	14	8 0.529 0.461 0.658
BOROER	351	262	209	46	24	23	131	92	110	291	187	168	10	7	3	34	37	18	SE(8) 0.142 0.156 0.173
OEFINITE	128	108	81	27	18	11	211	167	136	93	65	43	2	1	2	22	15	47	A -2.399 -2.630 -2.966
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			8 0.230 0.387 0.529
																			SE(B) 0.285 0.326 0.374
																			A -3.824 -4.097 -4.303
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	155	145	128	220	199	180	870	891	925	96	69	56	110	77	61	
																			MEN
NO	281	369	389	45	63	58	160	171	149	306	415	506	13	17	20	42	41	40	8 0.330 0.215 0.275
BOROER	262	236	213	67	53	46	256	225	216	357	298	256	41	26	19	115	87	74	SE(B) 0.117 0.121 0.127
OEFINITE	162	125	109	43	29	24	265	232	220	207	178	163	42	26	17	203	146	104	A -1.559 -1.546 -1.696
UNKNOWN	0	0	0	0	C	0				0	0	0	0	0	0				WOMEN
																			B 0.832 0.687 0.526
																			SE(8) 0.152 0.160 0.168
																			A -2.978 -3.105 -3.148
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	91	107	107	276	238	202	426	592	701	78	98	93	183	166	133	
																			MEN
NO	119	201	273	21	34	45	176	169	165	101	160	252	12	19	20	119	119	79	B 0.503 0.397 0.240
8ORDER	125	153	157	38	44	39	304	288	248	176	228	247	27	33	33	153	145	134	SE(B) 0.161 0.141 0.136
OEFINITE	86	96	101	32	29	23	372	302	228	149	204	202	39	46	40	262	225	198	A -1.453 -1.494 -1.550
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 0.523 0.408 0.521
																			SE(B) 0.176 0.147 0.143
																			A -2.127 -2.090 -2.425

* PERIOO OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 1-18-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: HYPERTENSION

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	36	40		12138	114	94		8258	173	209		2328	47	202	
NO	5330	18	34	30.6	6302	42	67	67.8	3786	49	129	142.6	932	11	118	127.3
BORDER	2636	9	34	46.8	3740	40	107	103.1	2646	68	257	219.2	886	20	226	206.2
DEFINITE	1024	9	88	71.5	2096	32	153	156.1	1826	56	307	334.1	510	16	314	330.7
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	7	6		15680	43	27		11376	111	98		3532	45	127	
NO	8552	3	4	3.5	8690	13	15	17.1	4098	17	41	50.3	840	4	48	51.1
BORDER	2036	2	10	10.2	4564	18	39	31.3	4114	45	109	91.8	1404	15	107	102.7
DEFINITE	658	2	30	29.8	2426	12	49	57.1	3164	49	155	166.3	1288	26	202	204.1
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.428	1.079	0.426	0.607	0.446	0.610	0.499	0.708
SE(B)	0.217	0.458	0.117	0.187	0.096	0.126	0.193	0.227
A	-5.089	-7.274	-4.287	-5.675	-3.528	-4.589	-3.645	-4.573

TABLE 1-19-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: GLUCOSE INTOLERANCE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	105	77	61	122	89	69	1091	1124	1081	26	21	17	24	19	16	
																			MEN
NO	820	850	864	101	76	58	123	89	67	1068	1108	1062	24	19	15	22	17	14	B -0.177 -0.570 0.958
YES	38	19	19	4	1	3	105	53	158	23	16	19	2	2	2	87	125	105	SE(B) 0.539 1.034 0.644
																			A -1.963 -2.321 -2.632
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 1.421 2.103 2.106
																			SE(B) 0.768 0.791 0.791
																			A -3.773 -4.049 -4.246
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	155	145	128	220	199	180	870	891	925	96	69	56	110	77	61	
																			MEN
NO	657	680	672	142	129	119	216	190	177	830	866	892	90	65	53	108	75	59	B 0.298 0.698 0.332
YES	48	50	39	13	16	9	271	320	231	40	25	33	6	4	3	150	160	91	SE(B) 0.338 0.319 0.393
																			A -1.288 -1.452 -1.536
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 0.372 0.853 0.459
																			SE(B) 0.457 0.561 0.622
																			A -2.107 -2.511 -2.762
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	91	107	107	276	238	202	426	592	701	78	98	93	183	166	133	
																			MEN
NO	304	423	492	79	100	99	260	236	201	395	552	653	71	86	83	180	156	127	B 0.893 0.123 0.024
YES	26	27	39	12	7	8	462	259	205	31	40	48	7	12	10	226	300	208	SE(B) 0.415 0.454 0.412
																			A -1.047 -1.172 -1.379
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 0.286 0.843 0.592
																			SE(B) 0.449 0.364 0.374
																			A -1.518 -1.690 -1.927

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 1-19-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE
CHARACTERISTIC: GLUCOSE INTOLERANCE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	36	40		12138	114	94		8258	173	209		2328	47	202	
NO	8716	35	40	40.2	11458	101	88	88.1	7612	153	201	201.0	2098	37	176	176.4
YES	274	1	36	36.5	680	13	191	191.2	646	20	310	309.6	230	10	435	434.8
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	7	6		15680	43	27		11376	111	98		3532	45	127	
NO	11060	6	5	5.4	15182	39	26	25.7	10684	101	95	94.5	3202	41	128	128.0
YES	186	1	54	53.8	498	4	80	80.3	692	10	145	144.5	330	4	121	121.2
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	-0.096	2.303	0.795	1.151	0.455	0.435	0.957	-0.056
SE(B)	1.018	1.085	0.300	0.529	0.245	0.336	0.371	0.530
A	-4.816	-6.825	-4.020	-5.266	-3.173	-3.949	-3.309	-3.639

TABLE 2-1-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	78	65	51	91	75	58	1091	1124	1081	16	12	9	15	11	8
074-109	35	71	91	2	3	3	57	42	33	101	204	247	3	3	1	30	15	4
110-119	115	163	190	8	10	14	70	61	74	234	310	312	3	2	3	13	6	10
120-129	183	215	246	13	16	11	71	74	45	279	267	263	4	0	2	14	0	8
130-139	236	203	181	23	15	9	97	74	50	212	180	138	2	2	0	9	11	0
140-149	154	123	99	15	10	6	97	81	61	120	83	66	1	2	1	8	24	15
150-159	56	49	37	7	5	4	125	102	108	68	43	28	2	3	1	29	70	36
160-169	41	22	20	2	2	1	49	91	50	46	17	14	0	0	0	0	0	0
170-179	23	12	9	5	3	1	217	250	111	18	9	6	1	0	0	56	0	0
180-189	7	6	8	2	1	2	286	167	250	6	8	2	0	0	0	0	0	0
190-300	8	5	2	1	0	0	125	0	0	7	3	5	0	0	1	0	0	200
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	115	103	93	163	141	131	870	891	925	47	36	31	54	40	34
074-109	23	49	53	1	5	2	43	102	38	23	50	104	0	0	2	0	0	19
110-119	82	119	134	7	9	14	85	76	104	66	128	163	1	4	3	15	31	18
120-129	145	163	160	18	22	19	124	135	119	140	153	172	3	3	2	21	20	12
130-139	136	163	141	21	24	18	154	147	128	174	178	167	7	7	5	40	39	30
140-149	123	106	105	24	23	20	195	217	190	133	129	103	9	7	5	68	54	49
150-159	76	60	53	11	10	9	145	167	170	109	93	83	9	5	3	83	54	36
160-169	50	30	32	12	1	5	240	33	156	77	60	50	5	4	3	65	67	60
170-179	30	14	18	10	4	3	333	286	167	56	31	39	8	3	6	143	97	154
180-189	18	12	7	4	2	2	222	167	286	41	33	19	2	1	0	49	30	0
190-300	22	14	8	7	3	1	318	214	125	51	36	25	3	2	2	59	56	80
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	78	85	80	236	189	151	426	592	701	39	53	51	92	90	73
074-109	9	24	47	2	3	3	222	125	64	13	17	26	1	1	1	77	59	38
110-119	24	52	75	2	4	6	83	77	80	17	38	54	0	2	1	0	53	19
120-129	51	72	97	5	12	15	98	167	155	40	64	111	3	4	5	75	63	45
130-139	64	97	99	12	12	14	188	124	141	66	84	124	2	6	9	30	71	73
140-149	57	64	63	14	16	11	246	250	175	61	79	90	1	4	3	16	51	33
150-159	49	48	57	14	11	11	286	229	193	65	103	88	8	7	6	123	68	68
160-169	23	36	34	8	8	7	348	222	206	44	70	60	2	9	5	45	129	83
170-179	22	19	17	7	5	4	318	263	235	41	44	55	10	4	4	244	91	73
180-189	11	12	15	4	4	2	364	333	133	24	31	36	5	4	4	208	129	111
190-300	20	26	27	10	10	7	500	385	259	55	62	57	7	12	13	127	194	228
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.015	0.013	0.012
SE(B)	0.006	0.007	0.008
A	-4.306	-4.249	-4.380
WOMEN			
B	-0.004	0.017	0.028
SE(B)	0.014	0.013	0.014
A	-3.708	-6.655	-8.327
AGE 45-54 AT EXAM			
MEN			
B	0.018	0.011	0.014
SE(B)	0.004	0.005	0.005
A	-4.178	-3.345	-3.807
WOMEN			
B	0.011	0.010	0.019
SE(B)	0.005	0.006	0.006
A	-4.444	-4.534	-5.997
AGE 55-64 AT EXAM			
MEN			
B	0.021	0.017	0.013
SE(B)	0.005	0.004	0.004
A	-4.256	-3.854	-3.558
WOMEN			
B	0.016	0.018	0.018
SE(B)	0.005	0.005	0.004
A	-4.812	-5.084	-5.374

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 2-1-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	29	32		12138	81	67		8258	111	134		2328	34	146	
074-109	718	1	14	22.2	742	2	27	39.6	494	2	40	71.0	120	1	83	67.3
110-119	1736	5	29	25.6	2036	8	39	46.9	1020	8	78	84.0	202	0	0	82.5
120-129	2308	9	39	29.0	2638	15	57	54.2	1512	14	93	97.3	326	5	153	95.1
130-139	2046	5	24	33.3	2638	13	49	63.3	1552	19	122	113.9	430	2	47	112.8
140-149	1172	2	17	37.9	1742	20	115	73.7	1246	18	144	132.5	394	12	305	131.7
150-159	522	3	57	43.5	1060	8	75	86.0	882	15	170	154.9	312	1	32	153.3
160-169	252	1	40	49.2	584	6	103	99.6	562	9	160	179.2	202	3	149	177.8
170-179	130	3	231	56.2	310	5	161	115.6	396	9	227	208.0	100	2	200	207.5
180-189	62	0	0	64.4	204	2	98	135.7	232	6	259	239.9	86	2	233	246.7
190-300	44	0	0	86.8	184	2	109	187.4	362	11	304	346.2	156	6	385	373.1
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	20	13		11376	45	40		3532	22	62	
074-109	2024	0	0	******	1398	3	21	11.8	444	0	0	15.5	68	0	0	17.3
110-119	2962	0	0	******	2668	1	4	12.2	1034	2	19	19.0	200	1	50	22.1
120-129	2710	1	4	******	3082	3	10	12.4	1558	3	19	22.8	300	2	67	27.1
130-139	1786	0	0	******	3046	4	13	12.7	1904	5	26	27.2	504	1	20	34.2
140-149	898	0	0	******	1978	4	20	13.0	1666	4	24	32.7	576	3	52	41.8
150-159	454	0	0	******	1388	3	22	13.3	1526	4	26	39.2	514	1	19	51.9
160-169	218	0	0	******	792	1	13	13.6	1070	8	75	46.8	438	0	0	63.6
170-179	94	0	0	******	528	1	19	13.9	792	4	51	55.9	344	2	58	78.9
180-189	52	0	0	******	390	0	0	14.2	580	7	121	66.7	224	5	223	98.1
190-300	48	1	208	******	410	0	0	15.2	802	8	100	111.0	364	7	192	168.5
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.014	*******	0.016	0.002	0.016	0.018	0.016	0.022
SE(B)	0.010	******	0.005	0.009	0.003	0.004	0.005	0.007
A	-6.830	*******	-6.455	-6.273	-5.879	-7.660	-5.955	-7.906

TABLE 2-2-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	78	65	51	91	75	58	1091	1124	1081	16	12	9	15	11	8
020-069	44	79	92	3	5	2	68	63	22	103	205	229	0	4	2	0	20	9
070-074	108	136	152	2	5	5	19	37	33	198	251	263	3	1	1	15	4	4
075-079	71	92	116	6	7	7	85	76	60	136	154	188	5	1	1	37	6	5
080-084	194	207	185	15	12	14	77	58	76	275	248	179	2	1	1	7	4	6
085-089	112	101	126	15	13	5	134	129	40	102	106	97	1	1	2	10	9	21
090-094	154	115	104	10	6	8	65	52	77	144	76	64	2	3	1	14	39	16
095-099	62	65	43	10	10	2	161	154	47	51	34	29	2	1	0	39	29	0
100-104	63	32	35	11	1	5	175	31	143	50	27	19	0	0	0	0	0	0
105-109	11	21	15	1	1	2	91	48	133	11	13	5	1	0	1	91	0	200
110-160	39	21	15	5	5	1	128	238	67	21	10	8	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	115	103	93	163	141	131	870	891	925	47	36	31	54	40	34
020-069	20	59	65	1	6	4	50	102	62	21	63	99	0	0	2	0	0	20
070-074	67	77	93	6	7	9	90	91	97	74	123	129	1	2	3	14	16	23
075-079	55	90	92	6	12	10	109	133	109	80	101	135	1	5	1	13	50	7
080-084	174	142	142	21	17	18	121	120	127	191	187	203	8	6	7	42	32	34
085-089	74	101	99	10	14	13	135	139	131	100	112	120	4	4	3	40	36	25
090-094	127	109	86	30	18	16	236	165	186	159	124	89	13	5	6	82	40	67
095-099	56	57	59	15	15	11	268	263	186	69	55	59	0	5	4	0	91	68
100-104	69	53	31	12	9	3	174	170	97	77	51	38	6	3	0	78	59	0
105-109	21	16	18	3	2	6	143	125	333	26	21	15	3	1	2	115	48	133
110-160	42	26	26	11	3	3	262	115	115	73	54	38	11	5	3	151	93	79
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	78	85	80	236	189	151	426	592	701	39	53	51	92	90	73
020-069	17	37	54	3	5	7	176	135	130	13	31	47	0	3	2	0	97	43
070-074	31	63	82	7	9	13	226	143	159	35	68	81	2	5	6	57	74	74
075-079	40	61	61	5	6	4	125	98	66	27	55	77	3	2	5	111	36	65
080-084	70	84	113	9	15	13	129	179	115	73	107	147	2	5	9	27	47	61
085-089	36	42	59	9	5	9	250	119	153	54	72	99	5	4	5	93	56	51
090-094	53	67	60	17	14	13	321	209	217	80	87	97	8	10	6	100	115	62
095-099	22	29	35	4	8	5	182	276	143	34	57	53	4	4	7	118	70	132
100-104	26	29	20	8	8	6	308	276	300	49	49	40	8	7	2	163	143	50
105-109	7	7	16	2	3	1	286	429	63	12	20	24	2	4	4	167	200	167
110-160	28	31	31	14	12	9	500	387	290	49	46	36	5	9	5	102	196	139
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.032	0.026	0.030
SE(B)	0.009	0.011	0.012
A	-5.146	-4.690	-5.332
WOMEN			
B	0.009	-0.002	0.036
SE(B)	0.021	0.026	0.024
A	-4.911	-4.373	-7.626
AGE 45-54 AT EXAM			
MEN			
B	0.027	0.016	0.023
SE(B)	0.008	0.009	0.009
A	-4.021	-3.174	-3.851
WOMEN			
B	0.038	0.026	0.028
SE(B)	0.010	0.011	0.012
A	-6.385	-5.489	-5.762
AGE 55-64 AT EXAM			
MEN			
B	0.036	0.027	0.015
SE(B)	0.009	0.008	0.008
A	-4.421	-3.804	-3.049
WOMEN			
B	0.019	0.029	0.022
SE(B)	0.010	0.009	0.011
A	-4.087	-4.987	-4.471

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 2-2-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	29	32		12138	81	67		8258	111	134		2328	34	146	
020-069	724	0	0	15.7	746	5	67	36.3	640	6	94	89.1	276	3	109	92.5
070-074	1314	2	15	19.9	1478	6	41	44.1	1124	16	142	101.6	374	5	134	111.0
075-079	988	4	40	23.9	1232	7	57	50.9	866	6	69	111.9	256	2	78	123.7
080-084	2240	7	31	28.2	2928	11	38	57.7	1842	19	103	122.4	502	6	120	136.3
085-089	1206	4	33	33.6	1644	13	79	66.3	906	9	99	134.8	258	2	78	152.7
090-094	1174	4	34	39.8	1732	13	75	75.5	1170	26	222	147.4	294	7	238	168.6
095-099	546	3	55	46.9	828	12	145	86.2	542	4	74	161.7	104	0	0	186.3
100-104	456	4	88	55.0	840	4	48	97.3	570	11	193	176.2	130	6	462	205.0
105-109	132	0	0	65.8	268	4	149	112.1	164	2	122	194.4	30	1	333	235.4
110-160	210	1	48	91.1	442	6	136	143.9	434	12	276	235.1	104	2	192	296.7
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	20	13		11376	45	40		3532	22	62	
020-069	1910	1	5	******	1412	2	14	10.7	742	0	0	20.2	280	0	0	21.0
070-074	2420	0	0	******	2446	3	12	11.5	1356	3	22	24.9	408	2	49	28.8
075-079	1592	0	0	******	1778	1	6	12.0	1050	6	57	28.8	320	2	63	36.2
080-084	2470	0	0	******	3638	3	8	12.5	2472	5	20	32.7	800	2	25	44.1
085-089	1104	0	0	******	1886	2	11	13.1	1418	4	28	37.6	358	1	28	55.4
090-094	878	0	0	******	2000	6	30	13.6	1774	11	62	43.1	572	6	105	68.0
095-099	360	1	28	******	794	0	0	14.2	754	6	80	49.3	274	2	73	83.7
100-104	290	0	0	******	806	0	0	14.8	860	2	23	56.0	278	1	36	102.4
105-109	100	0	0	******	258	3	116	15.5	282	2	71	64.5	52	1	192	127.5
110-160	122	0	0	******	662	0	0	17.0	668	6	90	85.9	190	5	263	204.0
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.035	*******	0.027	0.009	0.019	0.027	0.022	0.043
SE(B)	0.015	******	0.008	0.017	0.007	0.010	0.012	0.014
A	-7.989	*******	-6.655	-6.684	-5.241	-7.258	-5.339	-8.236

TABLE 2-3-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	78	65	51	91	75	58	1091	1124	1081	16	12	9	15	11	8
096-189	140	171	173	5	7	4	36	41	23	210	333	330	2	5	2	10	15	6
190-204	94	99	115	7	2	5	74	20	43	133	206	187	1	0	2	8	0	11
205-219	57	136	141	1	7	7	18	51	50	85	151	155	0	0	1	0	0	6
220-234	108	143	131	14	9	3	130	63	23	98	135	131	0	0	0	0	0	0
235-249	50	93	99	4	6	7	80	65	71	50	90	96	0	1	1	0	11	10
250-264	50	69	75	6	7	5	120	101	67	46	56	56	2	0	0	43	0	0
265-279	28	53	45	3	8	6	107	151	133	22	55	36	1	2	1	45	36	28
280-294	18	31	37	3	8	4	167	258	108	16	28	29	1	1	1	63	36	34
295-309	12	20	23	3	3	4	250	150	174	6	17	25	0	1	0	0	59	0
310-696	17	28	31	3	5	5	176	179	161	3	15	14	1	1	1	333	67	71
UNKNOWN	284	26	13	29	3	1				422	38	22	8	1	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	115	103	93	163	141	131	870	891	925	47	36	31	54	40	34
096-189	76	95	89	10	5	4	132	53	45	73	101	107	2	5	0	27	50	0
190-204	59	95	84	11	13	11	186	137	131	41	89	96	1	2	3	24	22	31
205-219	50	110	128	8	13	13	160	118	102	55	114	114	0	1	0	0	9	0
220-234	65	124	115	9	17	15	138	137	130	83	143	136	2	3	1	24	21	7
235-249	47	105	89	4	15	13	85	143	146	41	109	133	2	3	2	49	28	15
250-264	38	68	80	3	15	17	79	221	213	35	81	96	1	6	8	29	74	83
265-279	25	45	46	5	8	7	200	178	152	40	75	75	3	3	3	75	40	40
280-294	26	38	31	6	8	4	231	211	129	30	55	54	1	2	3	33	36	56
295-309	14	19	17	3	2	7	214	105	412	24	30	36	0	1	5	0	33	139
310-696	10	19	21	4	4	2	400	211	95	38	65	66	6	8	6	158	123	91
UNKNOWN	295	12	11	52	3	0				410	29	12	29	2	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	78	85	80	236	189	151	426	592	701	39	53	51	92	90	73
096-189	50	80	95	8	10	11	160	125	116	13	27	35	2	4	6	154	148	171
190-204	32	59	51	6	15	6	188	254	118	19	41	46	2	3	4	105	73	87
205-219	29	69	87	7	10	13	241	145	149	22	48	64	1	2	2	45	42	31
220-234	40	57	68	14	9	9	350	158	132	46	96	92	3	6	4	65	63	43
235-249	24	47	72	3	9	10	125	191	139	28	68	84	3	5	2	107	74	24
250-264	18	54	72	4	9	12	222	167	167	38	73	97	5	4	9	132	55	93
265-279	15	26	27	2	4	5	133	154	185	28	62	88	2	4	9	71	65	102
280-294	10	21	25	6	7	3	600	333	120	20	45	51	2	3	0	100	67	0
295-309	9	18	19	4	6	7	444	333	368	19	37	52	2	10	6	105	270	115
310-696	6	12	13	2	6	4	333	500	308	27	75	82	5	11	8	185	147	98
UNKNOWN	97	7	2	22	0	0				166	20	10	12	1	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.010	0.013	0.013
SE(B)	0.003	0.003	0.003
A	-4.609	-5.508	-5.944
WOMEN			
B	0.024	0.015	0.015
SE(B)	0.008	0.005	0.006
A	-9.876	-7.935	-8.216
AGE 45-54 AT EXAM			
MEN			
B	0.005	0.008	0.009
SE(B)	0.003	0.003	0.003
A	-2.955	-3.647	-3.888
WOMEN			
B	0.013	0.011	0.017
SE(B)	0.004	0.003	0.003
A	-6.355	-6.049	-7.817
AGE 55-64 AT EXAM			
MEN			
B	0.009	0.009	0.007
SE(B)	0.004	0.003	0.003
A	-3.108	-3.434	-3.332
WOMEN			
B	0.006	0.007	0.001
SE(B)	0.004	0.003	0.003
A	-3.717	-4.210	-2.870

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 2-3-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	29	32		12138	81	67		8258	111	134		2328	34	146	
096-189	1524	2	13	14.1	1356	6	44	37.6	980	8	82	102.0	282	2	71	124.4
190-204	994	1	10	18.9	1204	8	66	46.2	844	7	83	113.1	276	6	217	133.4
205-219	1192	2	17	22.6	1740	5	29	52.4	1088	17	156	120.2	306	4	131	138.5
220-234	1318	2	15	27.0	1774	13	73	59.5	1234	18	146	128.0	366	8	219	143.7
235-249	976	2	20	32.2	1506	9	60	67.4	1146	19	166	135.8	268	3	112	149.4
250-264	776	6	77	38.1	1346	7	52	75.6	1024	8	78	144.3	274	2	73	155.3
265-279	552	6	109	45.4	960	9	94	85.8	676	11	163	153.4	214	2	93	161.3
280-294	402	1	25	54.6	660	5	76	97.7	430	6	140	163.0	182	3	165	167.4
295-309	246	2	81	65.6	380	5	132	110.2	292	8	274	173.2	64	3	469	174.0
310-696	338	3	89	128.1	524	11	210	162.3	296	5	169	197.8	78	1	128	185.6
UNKNOWN	672	2			688	3			248	4			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	20	13		11376	45	40		3532	22	62	
096-189	2924	0	0	******	1488	0	0	6.5	440	4	91	21.7	94	1	106	17.2
190-204	1784	0	0	******	1442	1	7	7.6	578	0	0	25.4	138	0	0	24.0
205-219	1486	0	0	******	1776	2	11	8.5	870	2	23	28.1	246	0	0	28.2
220-234	1352	0	0	******	2184	1	5	9.5	1378	3	22	31.1	396	2	51	33.6
235-249	980	1	10	******	1930	2	10	10.5	1332	2	15	34.4	444	2	45	40.1
250-264	632	0	0	******	1642	2	12	11.7	1498	5	33	37.9	474	0	0	47.5
265-279	442	0	0	******	1384	1	7	13.0	1414	9	64	41.9	504	2	40	56.6
280-294	302	0	0	******	1022	1	10	14.4	1116	5	45	46.5	368	4	109	68.6
295-309	160	0	0	******	670	3	45	16.1	816	6	74	51.6	278	3	108	80.7
310-1124	182	1	55	******	1180	4	34	25.9	1506	9	60	68.2	540	7	130	126.5
UNKNOWN	1002	0			962	3			428	0			50	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.012	*******	0.008	0.007	0.004	0.007	0.003	0.012
SE(B)	0.003	******	0.002	0.002	0.002	0.003	0.004	0.004
A	-7.917	*******	-6.341	-7.886	-4.597	-6.625	-4.117	-7.711

TABLE 2-4-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	78	65	51	91	75	58	1091	1124	1081	16	12	9	15	11	8	
067-119	18	25	17	0	1	1	0	40	59	180	274	242	1	2	3	6	7	12	MEN
120-124	13	43	25	0	4	1	0	93	40	112	245	188	2	4	1	18	16	5	B 0.013 0.004 0.034
125-129	24	60	29	0	6	1	0	100	34	98	161	170	1	2	2	10	12	12	SE(B) 0.012 0.011 0.013
130-134	61	125	92	6	9	3	98	72	33	86	194	209	1	1	1	12	5	5	A -4.237 -3.032 -7.711
135-139	93	125	108	13	9	4	140	72	37	94	106	120	3	2	0	32	19	0	
140-144	103	147	133	4	6	6	39	41	45	47	44	70	0	0	1	0	0	14	WOMEN
145-149	68	106	193	7	9	10	103	85	52	5	20	28	0	0	1	0	0	36	B -0.005 -0.021 -0.021
150-154	84	101	109	9	12	7	107	119	64	8	15	14	0	0	0	0	0	0	SE(B) 0.030 0.028 0.029
155-159	43	55	98	2	3	11	47	55	112	2	8	6	0	0	0	0	0	0	A -3.714 -1.890 -2.118
160-216	50	50	62	6	4	6	120	80	97	5	3	1	0	0	0	0	0	0	
UNKNOWN	301	32	17	31	2	1				454	54	33	8	1	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	115	103	93	163	141	131	870	891	925	47	36	31	54	40	34	
067-119	11	30	15	1	2	0	91	67	0	77	173	150	2	9	3	26	52	20	MEN
120-124	21	44	28	5	7	4	238	159	143	87	192	158	6	4	4	69	21	25	B -0.009 0.016 0.014
125-129	20	41	28	3	3	1	150	73	36	65	130	144	2	5	5	31	38	35	SE(B) 0.011 0.009 0.010
130-134	43	104	92	9	10	12	209	96	130	75	176	184	1	5	9	13	28	49	A -0.425 -4.088 -3.833
135-139	62	99	86	11	13	10	177	131	116	67	87	131	3	7	7	45	80	53	
140-144	78	119	134	7	21	19	90	176	142	34	48	63	1	2	2	29	42	32	WOMEN
145-149	49	101	125	8	14	15	163	139	120	15	23	48	1	2	1	67	87	21	B 0.034 0.011 0.007
150-154	46	88	82	7	14	15	152	159	183	10	12	18	1	0	0	100	0	0	SE(B) 0.022 0.016 0.016
155-159	28	43	63	3	6	12	107	140	190	3	5	8	1	1	0	333	200	0	A -7.565 -4.605 -4.284
160-216	33	43	45	4	8	4	121	186	89	1	3	4	1	0	0	1000	0	0	
UNKNOWN	314	18	13	57	5	1				436	42	17	28	1	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	78	85	80	236	189	151	426	592	701	39	53	51	92	90	73	
067-119	22	31	23	4	7	4	182	226	174	42	111	96	2	6	6	48	54	63	MEN
120-124	10	22	22	2	3	3	200	136	136	44	105	109	5	8	9	114	76	83	B 0.021 0.005 0.007
125-129	12	32	32	3	7	4	250	219	125	39	92	100	3	7	8	77	76	80	SE(B) 0.012 0.010 0.010
130-134	31	72	47	4	9	3	129	125	64	50	128	173	7	13	12	140	102	69	A -4.121 -2.179 -2.721
135-139	33	69	76	10	15	16	303	217	211	38	57	87	3	3	5	79	53	57	
140-144	47	85	94	7	15	13	149	176	138	23	44	59	2	7	3	87	159	51	WOMEN
145-149	16	39	93	2	13	14	125	333	151	7	13	37	2	4	3	286	308	81	B 0.014 0.040 0.010
150-154	26	47	60	10	9	10	385	191	167	3	9	15	0	3	2	0	333	133	SE(B) 0.020 0.014 0.014
155-159	9	25	47	2	2	3	222	80	64	2	5	8	1	1	2	500	200	250	A -3.989 -7.494 -3.815
160-216	17	14	33	7	3	8	412	214	242	1	1	1	0	0	0	0	0	0	
UNKNOWN	107	14	4	27	2	2				177	27	16	14	1	1				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 2-4-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	29	32		12138	81	67		8258	111	134		2328	34	146	
067-119	136	1	74	12.0	148	1	68	51.7	218	2	92	131.2	48	0	0	76.3
120-124	206	1	49	15.4	264	2	76	54.9	164	4	244	132.1	16	0	0	83.8
125-129	272	2	74	17.4	286	1	35	57.0	230	4	174	132.5	44	0	0	93.5
130-134	686	2	29	20.5	820	2	24	59.5	620	8	129	133.0	98	1	102	102.3
135-139	892	0	0	24.1	1032	10	97	62.0	768	8	104	133.5	176	2	114	112.4
140-144	1288	0	0	27.4	1686	10	59	64.3	1280	12	94	133.9	322	5	155	123.4
145-149	1554	2	13	31.5	2080	15	72	66.8	1382	26	188	134.3	386	4	104	134.1
150-154	1286	7	54	36.7	1860	11	59	69.7	1210	15	124	134.8	494	7	142	147.9
155-159	980	6	61	42.3	1474	10	68	72.4	1042	15	144	135.2	342	7	205	160.8
160-216	950	6	63	55.0	1732	15	87	78.1	1054	13	123	136.1	374	7	187	191.5
UNKNOWN	740	2			756	4			290	4			28	1		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	20	13		11376	45	40		3532	22	62	
067-119	1962	1	5	******	1646	1	6	5.2	940	4	43	43.6	182	2	110	27.5
120-124	1586	0	0	******	1722	3	17	7.4	1040	6	58	42.6	236	0	0	37.1
125-129	1550	0	0	******	1952	1	5	8.7	1294	7	54	42.1	346	1	29	42.7
130-134	2034	0	0	******	2756	1	4	10.4	2258	6	27	41.6	628	2	32	49.7
135-139	1444	0	0	******	2534	1	4	12.6	1854	6	32	41.1	620	3	48	57.4
140-144	814	1	12	******	1784	5	28	14.9	1560	8	51	40.6	632	5	79	66.1
145-149	428	0	0	******	1238	4	32	17.6	1014	5	49	40.1	414	3	72	76.4
150-154	188	0	0	******	588	0	0	21.2	512	0	0	39.6	228	2	88	88.4
155-159	78	0	0	******	200	0	0	25.0	260	2	77	39.1	124	1	81	102.1
160-216	34	0	0	******	156	1	64	33.3	150	1	67	38.3	66	2	303	128.9
UNKNOWN	1128	0			1104	3			494	0			56	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	0.029	*******	0.008	0.036	0.001	-0.003	0.019	0.030
SE(B)	0.016	******	0.009	0.022	0.008	0.013	0.015	0.020
A	-9.363	*******	-5.493	-10.880	-3.694	-4.444	-6.329	-8.544

TABLE 2-5-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	78	65	51	91	75	58	1091	1124	1081	16	12	9	15	11	8
062-159	251	235	126	18	9	5	72	38	40	342	441	216	4	4	2	12	9	9
160-179	83	138	72	7	12	2	84	87	28	102	193	127	1	2	0	10	10	0
180-199	99	155	113	8	13	2	81	84	18	92	151	132	0	1	0	0	7	0
200-219	45	133	124	3	6	6	67	45	48	59	150	185	1	0	2	17	0	11
220-239	32	62	121	5	6	6	156	97	50	39	73	148	2	3	1	51	41	7
240-259	30	35	105	4	6	11	133	171	105	18	32	117	0	0	1	0	0	9
260-279	16	38	75	2	2	6	125	53	80	7	22	59	0	0	0	0	0	0
280-299	3	22	60	0	2	6	0	91	100	2	12	42	0	0	1	0	0	24
300-319	4	13	32	1	1	1	250	77	31	1	4	16	0	1	0	0	250	0
320-968	6	11	38	1	5	5	167	455	132	0	6	9	0	0	1	****	0	111
UNKNOWN	289	27	17	29	3	1				429	40	30	8	1	1			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	115	103	93	163	141	131	870	891	925	47	36	31	54	40	34
062-159	154	207	110	22	21	9	143	101	82	156	201	131	7	5	3	45	25	23
160-179	64	116	78	11	18	7	172	155	90	66	113	87	1	3	1	15	27	11
180-199	45	128	88	6	19	12	133	148	136	72	140	84	0	5	2	0	36	24
200-219	48	114	106	9	19	15	188	167	142	71	166	171	5	9	5	70	54	29
220-239	20	62	87	3	10	17	150	161	195	31	94	93	0	4	3	0	43	32
240-259	27	40	75	2	8	10	74	200	133	18	63	111	1	1	6	56	16	54
260-279	23	28	58	4	1	4	174	36	69	12	51	90	0	5	5	0	98	56
280-299	9	12	46	2	2	7	222	167	152	10	18	59	0	0	0	0	0	0
300-319	4	5	23	0	2	5	0	400	217	5	6	31	2	0	2	400	0	65
320-968	5	4	26	2	0	6	400	0	231	11	7	44	2	2	3	182	286	68
UNKNOWN	306	14	14	54	3	1				418	32	24	29	2	1			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	78	85	80	236	189	151	426	592	701	39	53	51	92	90	73
062-159	86	114	72	15	15	8	174	132	111	69	75	56	7	8	3	101	107	54
160-179	48	75	57	17	17	12	354	227	211	37	77	42	4	5	3	108	65	71
180-199	25	70	64	5	13	7	200	186	109	36	105	83	3	5	8	83	48	96
200-219	29	75	72	7	15	10	241	200	139	38	122	108	3	11	8	79	90	74
220-239	14	48	81	3	9	17	214	188	210	28	75	95	4	7	7	143	93	74
240-259	8	25	76	2	5	8	250	200	105	14	44	106	1	6	5	71	136	47
260-279	13	19	44	5	6	2	385	316	45	15	30	59	2	3	5	133	100	85
280-299	3	10	20	1	3	4	333	300	200	5	23	66	0	3	4	0	130	61
300-319	0	2	25	0	1	5	****	500	200	7	9	41	1	1	2	143	111	49
320-968	2	3	18	0	0	7	0	0	389	6	9	32	2	3	5	333	333	156
UNKNOWN	102	9	2	23	1	0				171	23	13	12	1	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.004	0.006	0.008
SE(B)	0.002	0.002	0.003
A	-3.138	-3.759	-4.733
WOMEN			
B	0.006	0.004	0.007
SE(B)	0.008	0.006	0.007
A	-5.351	-5.209	-6.328
AGE 45-54 AT EXAM			
MEN			
B	0.002	0.002	0.004
SE(B)	0.003	0.002	0.002
A	-1.995	-2.265	-2.797
WOMEN			
B	0.007	0.007	0.005
SE(B)	0.004	0.004	0.003
A	-4.499	-4.522	-4.568
AGE 55-64 AT EXAM			
MEN			
B	0.002	0.003	0.002
SE(B)	0.003	0.002	0.002
A	-1.534	-1.971	-2.212
WOMEN			
B	0.003	0.006	0.001
SE(B)	0.004	0.003	0.003
A	-2.765	-3.466	-2.879

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 2-5-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	29	32		12138	81	67		8258	111	134		2328	34	146	
062-159	1320	1	8	12.0	1130	6	53	35.5	698	4	57	104.8	60	0	0	120.0
160-179	654	2	31	16.5	636	2	31	42.5	450	4	89	112.6	64	0	0	126.2
180-199	942	1	11	19.9	818	4	49	47.5	572	8	140	117.7	46	0	0	129.9
200-219	906	0	0	23.8	1012	8	79	53.2	698	6	86	123.1	182	3	165	134.7
220-239	868	5	58	28.7	1200	5	42	59.5	892	20	224	128.5	210	6	286	139.1
240-259	934	3	32	33.8	1574	13	83	66.0	1188	18	152	134.2	460	6	130	143.7
260-279	928	2	22	40.1	1568	7	45	73.3	1240	16	129	140.0	458	7	153	148.4
280-299	638	4	63	47.4	1346	11	82	81.0	946	13	137	145.9	344	7	203	152.7
300-319	494	5	101	57.2	922	4	43	90.6	646	5	77	152.3	272	2	74	157.8
320-968	594	4	67	86.0	1186	18	152	116.1	656	13	198	166.4	214	3	140	166.0
UNKNOWN	712	2			746	3			272	4			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	20	13		11376	45	40		3532	22	62	
062-159	2236	0	0	******	1322	0	0	5.7	590	2	34	19.1	30	0	0	7.5
160-179	982	0	0	******	762	0	0	6.9	440	0	0	23.0	44	0	0	10.8
180-199	1106	0	0	******	870	0	0	7.6	596	2	34	25.6	58	0	0	14.2
200-219	1292	0	0	******	1552	2	13	8.5	948	3	32	29.1	158	1	63	19.3
220-239	1246	1	8	******	1520	2	13	9.5	916	3	33	32.5	188	0	0	25.1
240-259	1184	0	0	******	1902	2	11	10.4	1246	4	32	36.2	382	0	0	31.9
260-279	892	1	11	******	1998	4	20	11.6	1508	9	60	40.3	574	3	52	40.8
280-299	614	0	0	******	1668	1	6	12.8	1422	1	7	45.0	586	3	51	52.4
300-319	364	0	0	******	1358	2	15	14.1	1374	9	66	50.1	666	3	45	66.5
320-968	264	0	0	******	1666	3	18	17.7	1870	12	64	62.9	782	11	141	115.3
UNKNOWN	1066	0			1062	4			466	0			64	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	0.009	*******	0.005	0.005	0.002	0.006	0.002	0.013
SE(B)	0.003	******	0.002	0.003	0.002	0.003	0.004	0.004
A	-7.197	*******	-5.665	-7.456	-4.141	-6.325	-3.933	-8.297

TABLE 2-6-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	78	65	51	91	75	58	1091	1124	1081	16	12	9	15	11	8
C29-059	15	20	17	1	1	0	67	50	0	12	18	20	0	0	0	0	0	0
060-069	152	137	145	10	9	7	66	66	48	149	176	171	5	1	1	34	6	6
070-079	212	313	318	22	20	20	104	64	63	287	396	390	2	8	4	7	20	10
C80-089	181	211	220	11	16	12	61	76	55	236	301	305	2	1	2	8	3	7
090-099	71	105	111	8	12	6	113	114	54	91	128	110	1	1	1	11	8	9
100-109	30	38	41	2	4	1	67	105	24	33	45	33	0	0	0	0	0	0
110-119	17	13	11	4	0	1	235	0	91	14	17	15	0	0	0	C	0	0
120-129	6	2	6	0	0	1	C	0	167	5	7	5	0	0	0	0	0	0
130-139	5	5	3	0	1	1	0	200	333	2	1	4	0	0	0	0	0	0
140-524	4	5	4	0	0	1	C	0	250	4	5	7	2	1	1	500	200	143
UNKNOWN	165	20	7	20	2	1				258	30	21	4	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	115	103	93	163	141	131	870	891	925	47	36	31	54	40	34
029-059	11	15	13	1	3	2	91	200	154	5	10	13	0	1	1	0	100	77
060-069	100	98	100	16	18	12	160	184	120	86	121	121	3	3	6	35	25	50
070-079	150	245	220	26	30	26	173	122	118	168	255	327	8	11	12	48	43	37
080-089	127	179	208	18	13	24	142	73	115	192	281	262	9	13	7	47	46	27
090-099	79	102	90	7	16	17	89	157	189	87	112	113	5	2	3	57	18	27
100-109	19	34	41	4	8	6	211	235	146	45	46	35	1	1	1	22	22	29
110-119	13	23	13	3	4	2	231	174	154	14	23	21	1	1	0	71	43	0
120-129	2	7	5	1	4	1	500	571	200	6	2	4	0	0	0	0	0	0
130-139	6	2	1	2	0	0	333	0	0	2	4	5	0	0	0	0	0	0
140-524	14	16	14	6	5	2	429	313	143	8	13	14	1	3	1	125	231	71
UNKNOWN	184	9	6	31	2	1				257	24	10	19	1	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	78	85	80	236	189	151	426	592	701	39	53	51	92	90	73
029-059	8	9	6	1	5	1	125	556	167	5	15	12	0	2	1	0	133	83
060-069	38	61	75	8	16	8	211	262	107	33	60	58	4	8	6	121	133	103
070-079	88	136	154	20	29	20	227	213	130	93	157	200	4	12	11	43	76	55
080-089	67	117	130	18	13	16	269	111	123	88	164	220	6	8	14	68	49	64
090-099	35	56	85	7	4	14	200	71	165	53	95	93	8	9	7	151	95	75
100-109	12	20	30	3	6	11	250	300	367	24	46	51	3	5	3	125	109	59
110-119	8	17	18	2	4	3	250	235	167	4	9	18	0	2	3	0	222	167
120-129	3	7	13	2	2	2	667	286	154	6	12	17	0	3	1	0	250	59
130-139	2	2	4	0	0	0	0	0	0	4	1	3	1	0	0	250	0	0
140-524	9	13	13	4	4	4	444	308	308	13	16	21	4	3	4	308	188	190
UNKNOWN	60	12	3	13	2	1				103	17	8	9	1	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.002	0.008	0.006
SE(B)	0.008	0.008	0.006
A	-2.558	-3.170	-3.279
WOMEN			
B	0.029	0.013	0.011
SE(B)	0.012	0.019	0.011
A	-6.524	-5.556	-5.702
AGE 45-54 AT EXAM			
MEN			
B	0.007	0.006	0.005
SE(B)	0.003	0.003	0.004
A	-2.279	-2.292	-2.340
WOMEN			
B	0.006	0.010	-0.014
SE(B)	0.008	0.006	0.014
A	-3.528	-4.027	-2.187
AGE 55-64 AT EXAM			
MEN			
B	0.007	0.003	0.009
SE(B)	0.005	0.004	0.004
A	-1.712	-1.703	-2.576
WOMEN			
B	0.007	0.005	0.006
SE(B)	0.004	0.004	0.003
A	-2.966	-2.777	-3.131

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 2-6-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	29	32		12138	81	67		8258	111	134		2328	34	146	
029-059	290	0	0	30.6	342	2	58	53.3	246	7	285	117.8	54	0	0	105.6
060-069	1716	6	35	30.9	2180	13	60	57.3	1320	13	98	122.6	414	5	121	116.5
070-079	2930	10	34	31.3	3916	23	59	61.5	2516	25	99	127.0	674	12	178	126.6
080-089	2086	5	24	31.6	2780	13	47	66.1	1986	29	146	131.7	522	4	77	138.0
090-099	918	5	54	31.9	1340	12	90	70.9	976	18	184	136.6	336	5	149	150.8
100-109	340	0	0	32.3	526	4	76	76.7	414	5	121	141.8	112	1	89	164.9
110-119	160	0	0	32.7	252	3	119	82.9	226	4	177	147.7	46	1	217	181.0
120-129	52	1	192	33.0	88	2	227	88.5	122	2	164	153.6	34	1	294	198.6
130-139	36	0	0	33.5	54	0	0	96.0	54	1	185	159.8	34	0	0	213.3
140-524	60	0	0	35.7	234	6	256	186.1	216	3	139	211.2	78	5	641	478.3
UNKNOWN	402	2			426	3			182	4			24	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	20	13		11376	45	40		3532	22	62	
029-059	262	0	0	******	296	0	0	7.3	240	0	0	34.0	54	0	0	34.1
060-069	1874	0	0	******	2698	2	7	8.7	1454	11	76	36.0	414	2	48	39.8
070-079	3918	1	3	******	5228	6	11	10.0	3560	11	31	37.9	1118	5	45	45.8
080-089	2916	1	3	******	3936	5	13	11.7	3068	11	36	39.9	918	5	54	52.3
090-099	1010	0	0	******	1620	1	6	13.6	1376	2	15	42.2	462	5	108	60.1
100-109	334	0	0	******	628	0	0	15.9	616	4	65	44.6	238	1	42	68.6
110-119	140	0	0	******	300	0	0	18.8	268	4	149	47.2	80	0	0	80.3
120-129	52	0	0	******	102	0	0	21.7	190	0	0	49.8	88	0	0	91.8
130-139	20	0	0	******	42	0	0	25.9	58	0	0	52.8	28	0	0	103.8
140-524	58	0	0	******	160	3	188	115.0	252	2	79	84.9	90	3	333	349.5
UNKNOWN	662	0			670	3			294	0			42	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	0.001	*******	0.008	0.016	0.004	0.006	0.009	0.014
SE(B)	0.011	******	0.003	0.004	0.003	0.004	0.003	0.003
A	-5.152	*******	-4.960	-7.392	-3.939	-5.293	-4.349	-5.742

TABLE 2-7-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: URIC ACID (MG/LITER)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	78	65	51	91	75	58	1091	1124	1081	16	12	9	15	11	8
005-029	29	15	22	1	1	1	34	67	45	187	169	170	4	2	2	21	12	12
030-034	36	41	29	4	3	1	111	73	34	119	208	255	0	5	2	0	24	8
035-039	74	51	63	9	2	3	122	39	48	124	271	266	1	1	4	8	4	15
040-044	77	136	147	5	8	9	65	59	61	111	219	209	2	3	1	18	14	5
045-049	90	155	183	5	11	9	56	71	49	66	117	87	1	0	0	15	0	0
050-054	97	151	172	7	10	10	72	66	58	22	56	44	0	0	0	0	0	0
055-059	73	120	138	7	13	9	96	108	65	23	28	20	0	0	0	0	0	0
060-064	43	87	65	2	8	3	47	92	46	6	9	3	0	0	0	0	0	0
065-069	29	51	29	3	4	4	103	78	138	4	4	4	0	0	0	0	0	0
070-104	24	35	22	5	1	1	208	29	45	5	4	1	0	0	0	0	0	0
UNKNOWN	286	27	13	30	4	1				424	39	22	8	1	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	115	103	93	163	141	131	870	891	925	47	36	31	54	40	34
005-029	22	16	8	3	2	1	136	125	125	88	99	102	2	3	2	23	30	20
030-034	27	23	25	2	0	4	74	0	160	70	113	157	2	2	6	29	18	38
035-039	45	66	48	3	9	7	67	136	146	77	171	200	6	8	5	78	47	25
040-044	50	101	120	10	12	11	200	119	92	72	175	184	3	7	6	42	40	33
045-049	71	118	146	9	15	16	127	127	110	76	118	130	2	2	5	26	17	38
050-054	58	115	133	12	19	22	207	165	165	36	82	84	1	4	4	28	49	48
055-059	56	108	92	6	15	10	107	139	109	15	60	40	1	4	2	67	67	50
060-064	35	78	78	7	14	16	200	179	205	13	26	9	1	3	0	77	115	0
065-069	21	47	30	5	7	2	238	149	67	8	8	4	0	0	0	0	0	0
070-104	24	46	19	5	7	3	208	152	158	3	7	2	0	1	1	0	143	500
UNKNOWN	296	12	12	53	3	1				412	32	13	29	2	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	78	85	80	236	189	151	426	592	701	39	53	51	92	90	73
005-029	8	8	5	1	0	1	125	0	200	26	58	53	4	3	2	154	52	38
030-034	18	20	14	4	4	1	222	200	71	37	72	98	3	7	6	81	97	61
035-039	26	44	53	6	10	9	231	227	170	49	101	132	6	10	12	122	99	91
040-044	37	57	84	8	14	12	216	246	143	59	117	166	6	10	5	102	85	30
045-049	37	76	104	12	13	16	324	171	154	36	94	114	3	4	14	83	43	123
050-054	35	78	104	10	16	11	286	205	106	27	59	62	2	10	2	74	169	32
055-059	33	61	85	4	11	6	121	180	71	15	37	34	2	4	6	133	108	176
060-064	17	53	42	4	9	13	235	170	310	3	18	16	0	1	1	0	56	63
065-069	12	26	25	3	4	8	250	154	320	3	10	10	0	0	1	0	0	100
070-104	10	19	12	4	4	3	400	211	250	3	6	6	1	3	1	333	500	167
UNKNOWN	97	8	3	22	0	0				168	20	10	12	1	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.012	0.006	0.016
SE(B)	0.012	0.012	0.014
A	-2.966	-2.831	-3.582
WOMEN			
B	-0.017	-0.063	-0.058
SE(B)	0.034	0.036	0.044
A	-3.823	-2.333	-2.716
AGE 45-54 AT EXAM			
MEN			
B	0.020	0.013	0.009
SE(B)	0.011	0.009	0.011
A	-2.724	-2.491	-2.358
WOMEN			
B	0.007	0.031	0.028
SE(B)	0.022	0.017	0.020
A	-3.469	-4.520	-4.512
AGE 55-64 AT EXAM			
MEN			
B	0.008	-0.002	0.018
SE(B)	0.013	0.011	0.013
A	-1.517	-1.325	-2.619
WOMEN			
B	-0.004	0.021	0.025
SE(B)	0.020	0.013	0.015
A	-1.985	-3.216	-3.609

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 2-7-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: URIC ACID (MG/LITER)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	29	32		12138	81	67		8258	111	134		2328	34	146	
005-029	188	0	0	20.3	170	0	0	52.3	74	1	135	109.2	36	0	0	74.2
030-034	348	0	0	23.0	356	3	84	56.1	312	3	96	116.4	66	1	152	87.9
035-039	628	2	32	25.3	976	7	72	58.9	732	8	109	120.5	188	3	160	99.2
040-044	1384	4	29	27.7	1760	9	51	61.8	1328	21	158	125.6	438	5	114	115.7
045-049	1644	7	43	30.3	2340	14	60	65.0	1692	23	136	130.6	460	4	87	132.6
050-054	1568	5	32	33.2	2228	19	85	68.2	1396	15	107	135.7	388	3	77	150.9
055-059	1210	4	33	36.5	1632	8	49	71.9	1194	13	109	141.0	364	10	275	172.7
060-064	700	1	14	40.0	984	9	91	75.5	708	13	184	146.6	212	4	189	197.7
065-069	390	3	77	44.0	516	4	78	79.5	312	6	192	152.7	92	4	435	225.2
070-104	244	1	41	52.5	438	4	91	87.7	246	4	163	164.5	58	0	0	296.2
UNKNOWN	686	2			738	4			264	4			26	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	20	13		11376	45	40		3532	22	62	
005-029	1826	1	5	******	2144	4	19	11.9	986	1	10	23.7	256	4	156	92.7
030-034	2292	0	0	******	2666	1	4	11.8	1566	7	45	29.3	440	4	91	77.8
035-039	2476	0	0	******	3348	7	21	11.6	2220	7	32	34.2	706	2	28	67.9
040-044	2006	1	5	******	3120	3	10	11.5	2560	10	39	40.2	756	2	26	59.0
045-049	886	0	0	******	1684	0	0	11.4	1744	8	46	47.4	650	6	92	51.1
050-054	382	0	0	******	956	1	10	11.3	976	5	51	55.7	342	2	58	44.2
055-059	224	0	0	******	416	0	0	11.1	462	4	87	65.1	192	0	0	39.3
060-064	66	0	0	******	198	0	0	11.0	220	2	91	75.8	62	1	161	33.9
065-069	32	0	0	******	98	0	0	10.9	132	0	0	89.3	36	0	0	29.6
070-104	26	0	0	******	28	1	357	10.8	58	1	172	114.9	24	0	0	21.9
UNKNOWN	1030	0			1022	3			452	0			68	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.019	*******	0.010	-0.002	0.008	0.033	0.029	-0.029
SE(B)	0.018	******	0.011	0.027	0.010	0.015	0.017	0.025
A	-5.981	*******	-4.816	-5.978	-4.004	-6.200	-4.965	-3.215

TABLE 2-8-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	78	65	51	91	75	58	1091	1124	1081	16	12	9	15	11	8
052-084	98	84	73	4	2	0	41	24	0	196	196	174	2	1	1	10	5	6
085-089	77	76	82	6	4	4	78	53	49	128	149	159	2	0	2	16	0	13
090-094	104	113	92	5	10	5	48	88	54	153	179	166	1	4	2	7	22	12
095-099	120	133	140	9	11	7	75	83	50	153	155	142	1	1	0	7	6	0
100-104	107	102	117	10	5	4	93	49	34	120	110	130	3	0	0	25	0	0
105-109	112	105	115	15	8	7	134	76	61	96	92	84	5	2	1	52	22	12
110-114	88	99	106	13	13	12	148	131	113	64	60	60	0	3	0	0	50	0
115-119	57	62	57	6	8	5	105	129	88	45	57	44	1	0	2	22	0	45
120-124	40	41	43	5	1	4	125	24	93	29	38	37	0	0	0	0	0	0
125-226	50	49	53	4	2	2	80	41	38	96	75	75	1	1	1	10	13	13
UNKNOWN	5	5	5	1	1	1				11	13	10	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	115	103	93	163	141	131	870	891	925	47	36	31	54	40	34
052-084	55	63	63	6	6	6	109	95	95	68	81	92	3	3	2	44	37	22
085-089	48	49	52	7	5	4	146	102	77	56	73	86	0	2	1	0	27	12
090-094	99	81	80	12	5	10	121	62	125	83	89	109	1	2	3	12	22	28
095-099	97	118	89	15	13	10	155	110	112	123	119	141	4	6	3	33	50	21
100-104	107	107	116	17	15	14	159	140	121	127	126	120	10	3	4	79	24	33
105-109	117	103	103	25	14	13	214	136	126	100	101	99	6	6	7	60	59	71
110-114	67	88	81	8	14	13	119	159	160	78	81	80	4	5	5	51	62	63
115-119	50	54	59	6	15	11	120	278	186	61	67	58	5	2	4	82	30	69
120-124	21	28	26	4	5	4	190	179	154	52	45	34	4	1	0	77	22	0
125-226	39	35	39	14	11	8	359	314	205	119	106	103	10	6	2	84	57	19
UNKNOWN	5	4	3	1	0	0				3	3	3	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	78	85	80	236	189	151	426	592	701	39	53	51	92	90	73
052-084	43	45	43	7	8	5	163	178	116	29	40	50	2	3	3	69	75	60
085-089	23	31	42	4	4	5	174	129	119	25	37	45	3	1	1	120	27	22
090-094	31	44	57	6	6	5	194	136	88	38	56	62	6	6	6	158	107	97
095-099	53	78	81	14	12	12	264	154	148	45	73	98	2	6	8	44	82	82
100-104	48	63	82	11	18	16	229	286	195	51	83	100	5	8	9	98	96	90
105-109	33	57	74	7	10	11	212	175	149	39	55	82	3	7	5	77	127	61
110-114	39	55	75	9	10	9	231	182	120	46	62	55	7	4	2	152	65	36
115-119	24	38	34	8	6	8	333	158	235	43	42	60	1	2	5	23	48	83
120-124	17	19	19	4	5	3	235	263	158	29	49	40	1	5	1	34	102	25
125-226	15	17	23	6	4	5	400	235	217	79	94	107	9	11	11	114	117	103
UNKNOWN	4	3	1	2	2	1				2	1	2	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.020	0.009	0.019
SE(B)	0.008	0.009	0.010
A	-4.361	-3.439	-4.798
WOMEN			
B	0.004	0.010	0.006
SE(B)	0.014	0.016	0.019
A	-4.609	-5.483	-5.366
AGE 45-54 AT EXAM			
MEN			
B	0.020	0.032	0.018
SE(B)	0.008	0.008	0.008
A	-3.756	-5.182	-3.779
WOMEN			
B	0.017	0.005	0.004
SE(B)	0.007	0.009	0.010
A	-4.701	-3.658	-3.778
AGE 55-64 AT EXAM			
MEN			
B	0.015	0.010	0.013
SE(B)	0.009	0.009	0.009
A	-2.736	-2.530	-3.081
WOMEN			
B	0.001	0.007	0.004
SE(B)	0.008	0.007	0.008
A	-2.371	-3.072	-2.938

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 2-8-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	29	32		12138	81	67		8258	111	134		2328	34	146	
052-084	768	0	0	19.9	970	4	41	43.2	678	13	192	99.8	254	2	79	96.4
085-089	734	3	41	23.1	920	2	22	49.0	552	6	109	110.0	190	1	53	112.1
090-094	980	3	31	25.3	1286	5	39	53.3	856	8	93	116.9	246	5	203	122.0
095-099	1418	1	7	28.0	1688	13	77	57.8	1312	11	84	124.0	336	2	60	132.6
100-104	1194	6	50	30.9	1836	11	60	62.8	1400	19	136	131.6	332	10	301	143.5
105-109	1176	4	34	34.0	1766	14	79	68.0	1148	12	105	139.5	296	2	68	154.8
110-114	1032	5	48	37.3	1396	8	57	73.8	928	15	162	147.9	306	4	131	169.0
115-119	638	3	47	41.0	894	10	112	80.0	594	9	152	156.8	160	4	250	181.6
120-124	432	1	23	45.4	560	7	125	87.0	426	8	188	166.5	84	2	238	199.1
125-226	566	3	53	56.8	758	5	66	103.6	332	9	271	191.4	122	2	164	235.3
UNKNOWN	52	0			64	2			32	1			2	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	20	13		11376	45	40		3532	22	62	
052-084	1924	0	0	******	1692	1	6	10.8	916	2	22	37.4	394	3	76	67.7
085-089	1532	1	7	******	1666	2	12	11.4	870	4	46	38.1	226	1	44	66.0
090-094	1732	0	0	******	1934	3	16	11.8	1138	4	35	38.5	294	1	34	65.0
095-099	1582	0	0	******	2302	2	9	12.2	1588	6	38	38.9	450	2	44	64.1
100-104	1222	0	0	******	1964	0	0	12.6	1466	6	41	39.3	454	3	66	63.1
105-109	842	0	0	******	1600	3	19	13.1	1290	3	23	39.7	424	5	118	62.2
110-114	636	0	0	******	1214	2	16	13.5	1084	7	65	40.1	290	3	103	61.3
115-119	500	0	0	******	892	3	34	14.0	804	4	50	40.6	252	1	40	60.4
120-124	324	0	0	******	630	2	32	14.5	596	2	34	41.0	214	0	0	59.6
125-226	840	1	12	******	1690	2	12	16.7	1592	7	44	42.7	524	3	57	56.7
UNKNOWN	112	0			96	0			32	0			10	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.020	*******	0.017	0.007	0.012	0.002	0.017	-0.003
SE(B)	0.013	******	0.008	0.011	0.007	0.008	0.012	0.012
A	-7.082	*******	-6.070	-6.688	-4.866	-5.060	-5.253	-4.055

TABLE 2-9-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	78	65	51	91	75	58	1091	1124	1081	16	12	9	15	11	8
05-14	1	0	1	0	0	0	0	****	0	9	11	7	0	0	0	0	0	0
15-19	1	5	3	0	0	0	0	0	0	60	46	28	2	1	2	33	22	71
20-24	12	13	10	1	2	1	83	154	100	234	190	189	5	4	0	21	21	0
25-29	43	45	30	2	5	0	47	111	0	414	476	411	6	5	6	14	11	15
30-34	155	124	133	16	5	7	103	40	53	284	309	332	3	1	1	11	3	3
35-39	247	256	244	22	16	20	89	63	82	70	81	96	0	1	0	0	12	0
40-44	235	260	255	21	27	18	89	104	71	10	7	15	0	0	0	0	0	0
45-49	116	119	141	15	8	3	129	67	21	2	2	1	0	0	0	0	0	0
50-54	33	38	56	1	2	2	30	53	36	1	0	0	0	0	0	0	****	****
55-61	5	7	9	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
UNKNOWN	10	2	1	0	0	0				7	2	2	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	115	103	93	163	141	131	870	891	925	47	36	31	54	40	34
05-14	1	1	0	0	0	0	0	0	****	19	29	22	1	2	0	53	69	0
15-19	3	5	4	0	1	0	0	200	0	107	116	88	9	5	3	84	43	34
20-24	24	15	17	7	1	0	292	67	0	326	300	306	18	15	13	55	50	42
25-29	73	71	81	15	9	12	205	127	148	274	308	333	12	10	11	44	32	33
30-34	170	199	191	21	26	26	124	131	136	122	121	152	7	3	4	57	25	26
35-39	220	229	208	40	39	31	182	170	149	16	15	22	0	1	0	0	67	0
40-44	142	154	148	21	22	16	148	143	108	2	1	2	0	0	0	0	0	0
45-49	52	43	48	7	2	5	135	47	104	0	0	0	0	0	0	****	****	****
50-54	15	11	11	2	3	3	133	273	273	0	0	0	0	0	0	****	****	****
55-61	2	2	2	1	0	0	500	0	0	0	0	0	0	0	0	****	****	****
UNKNOWN	3	0	1	1	0	0				4	1	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	78	85	80	236	189	151	426	592	701	39	53	51	92	90	73
05-14	0	3	4	0	1	1	****	333	250	26	44	52	2	4	3	77	91	58
15-19	3	12	7	1	4	0	333	333	0	82	140	148	8	18	17	98	129	115
20-24	18	34	37	3	8	6	167	235	162	203	247	295	23	20	19	113	81	64
25-29	66	80	99	17	13	17	258	163	172	82	137	160	5	10	10	61	73	63
30-34	103	126	154	24	26	22	233	206	143	24	21	40	0	0	1	0	0	25
35-39	91	133	155	22	25	25	242	188	161	4	2	5	0	0	0	0	0	0
40-44	34	45	57	8	5	7	235	111	123	0	0	0	0	0	0	****	****	****
45-49	8	13	12	1	2	1	125	154	83	0	0	0	0	0	0	****	****	****
50-54	1	1	4	0	0	1	0	0	250	0	0	0	0	0	0	****	****	****
55-61	0	0	0	0	0	0	****	****	****	0	0	0	0	0	0	****	****	****
UNKNOWN	6	3	2	2	1	0				5	1	1	1	1	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.001	0.005	-0.023
SE(B)	0.018	0.020	0.022
A	-2.327	-2.717	-1.899
WOMEN			
B	-0.075	-0.094	-0.101
SE(B)	0.047	0.055	0.064
A	-2.233	-2.032	-2.058
AGE 45-54 AT EXAM			
MEN			
B	-0.013	-0.001	0.001
SE(B)	0.015	0.017	0.017
A	-1.176	-1.758	-1.932
WOMEN			
B	-0.036	-0.027	-0.015
SE(B)	0.030	0.033	0.036
A	-2.001	-2.509	-2.988
AGE 55-64 AT EXAM			
MEN			
B	-0.012	-0.024	-0.014
SE(B)	0.023	0.018	0.019
A	-0.780	-0.680	-1.253
WOMEN			
B	-0.045	-0.056	-0.044
SE(B)	0.035	0.029	0.028
A	-1.350	-1.179	-1.626

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 2-9-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	29	32		12138	81	67		8258	111	134		2328	34	146	
05-14	6	0	0	38.9	10	0	0	145.8	26	1	385	181.8	14	0	0	172.4
15-19	28	0	0	37.6	72	1	139	118.2	112	3	268	167.9	76	1	132	164.1
20-24	98	1	102	36.4	298	2	67	101.2	462	4	87	157.6	256	3	117	155.7
25-29	340	2	59	35.2	1080	9	83	87.8	1450	25	172	147.0	570	8	140	148.0
30-34	1340	1	7	34.1	2742	19	69	76.0	2336	29	124	137.7	776	16	206	140.5
35-39	2438	9	37	33.0	3712	31	84	65.4	2354	31	132	128.8	456	5	110	133.4
40-44	2590	11	42	31.9	2760	14	51	56.6	1108	12	108	120.7	134	0	0	127.0
45-49	1384	5	36	30.9	1094	4	37	48.7	298	2	67	112.5	28	0	0	120.3
50-54	610	0	0	29.9	302	0	0	41.8	74	3	405	104.7	4	0	0	115.4
55-61	130	0	0	28.8	60	1	167	35.9	10	1	1000	99.2	2	0	0	109.4
UNKNOWN	26	0			8	0			28	0			12	1		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	20	13		11376	45	40		3532	22	62	
05-14	54	0	0	******	208	0	0	32.7	504	2	40	77.2	390	3	77	117.7
15-19	358	0	0	******	1190	2	17	22.0	2090	14	67	52.7	1026	7	68	74.0
20-24	1834	1	5	******	4510	11	24	15.7	4830	20	41	39.7	1456	11	76	52.1
25-29	4400	0	0	******	5984	5	8	11.3	3044	8	26	29.6	558	1	18	35.7
30-34	3322	1	3	******	3136	2	6	8.1	790	1	13	22.2	98	0	0	24.4
35-39	1082	0	0	******	572	0	0	5.7	100	0	0	16.5	4	0	0	17.7
40-44	144	0	0	******	56	0	0	4.0	2	0	0	11.9	0	0	*****	******
45-49	16	0	0	******	8	0	0	2.8	2	0	0	8.2	0	0	*****	******
50-54	2	0	0	******	0	0	*****	******	0	0	*****	******	0	0	*****	******
55-61	2	0	0	******	0	0	*****	******	0	0	*****	******	0	0	*****	******
UNKNOWN	32	0			16	0			14	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	-0.007	*******	-0.031	-0.072	-0.014	-0.063	-0.011	-0.081
SE(B)	0.028	******	0.017	0.044	0.015	0.030	0.028	0.043
A	-4.759	*******	-3.178	-4.170	-3.105	-3.447	-3.192	-2.799

TABLE 2-10-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	78	65	51	91	75	58	1091	1124	1081	16	12	9	15	11	8
NONE	0	119	116	0	12	7	****	101	60	0	329	308	0	2	1	****	6	3
000-009	0	252	270	0	15	13	****	60	48	0	448	442	0	7	5	****	16	11
010-019	0	128	126	0	16	14	****	125	111	0	101	98	0	0	0	****	0	0
020-029	0	75	74	0	8	7	****	107	95	0	60	55	0	1	1	****	17	18
030-039	0	45	53	0	3	2	****	67	38	0	35	32	0	0	0	****	0	0
040-049	0	45	44	0	0	1	****	0	23	0	15	13	0	0	0	****	0	0
050-059	0	26	26	0	1	1	****	38	38	0	8	7	0	0	0	****	0	0
060-069	0	23	21	0	2	2	****	87	95	0	21	22	0	0	0	****	0	0
070-079	0	17	16	0	2	1	****	118	63	0	5	5	0	1	1	****	200	200
080-457	0	57	56	0	0	0	****	0	0	0	10	9	0	0	0	****	0	0
UNKNOWN	858	82	81	78	6	3				1091	92	90	16	1	1			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	115	103	93	163	141	131	870	891	925	47	36	31	54	40	34
NONE	0	133	121	0	14	13	****	105	107	0	369	361	0	16	12	****	43	33
000-009	0	201	197	0	34	30	****	169	152	0	309	337	0	14	14	****	45	42
010-019	0	77	76	0	11	9	****	143	118	0	53	54	0	2	2	****	38	37
020-029	0	55	60	0	8	9	****	145	150	0	34	38	0	0	0	****	0	0
030-039	0	62	59	0	6	5	****	97	85	0	30	34	0	2	1	****	67	29
040-049	0	34	33	0	5	1	****	147	30	0	16	17	0	0	0	****	0	0
050-059	0	27	23	0	4	3	****	148	130	0	4	3	0	0	0	****	0	0
060-069	0	23	30	0	6	7	****	261	233	0	7	10	0	1	1	****	143	100
070-079	0	6	7	0	1	1	****	167	143	0	1	1	0	0	0	****	0	0
080-457	0	47	40	0	5	4	****	106	100	0	7	7	0	0	0	****	0	0
UNKNOWN	705	65	65	115	9	11				870	61	63	47	1	1			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	78	85	80	236	189	151	426	592	701	39	53	51	92	90	73
NONE	0	99	115	0	24	18	****	242	157	0	294	342	0	28	25	****	95	73
000-009	0	135	154	0	23	24	****	170	156	0	178	213	0	9	11	****	51	52
010-019	0	36	51	0	7	10	****	194	196	0	19	32	0	1	1	****	53	31
020-029	0	21	27	0	4	4	****	190	148	0	20	25	0	2	2	****	100	80
030-039	0	33	39	0	5	4	****	152	103	0	19	20	0	3	3	****	158	150
040-049	0	19	24	0	2	3	****	105	125	0	5	7	0	0	0	****	0	0
050-059	0	10	13	0	2	1	****	200	77	0	2	4	0	0	0	****	0	0
060-069	0	7	7	0	3	3	****	429	429	0	0	0	0	0	0	****	****	****
070-079	0	11	11	0	1	0	****	91	0	0	2	1	0	0	0	****	0	0
080-457	0	34	43	0	5	6	****	147	140	0	5	5	0	1	1	****	200	200
UNKNOWN	330	45	47	78	9	7				426	48	52	39	9	8			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B*******		-0.012	-0.010
SE(B)******		0.006	0.006
A*******		-2.275	-2.561
WOMEN			
B*******		0.005	0.010
SE(B)******		0.013	0.012
A*******		-4.574	-4.916
AGE 45-54 AT EXAM			
MEN			
B*******		-0.001	-0.003
SE(B)******		0.003	0.004
A*******		-1.777	-1.871
WOMEN			
B*******		-0.008	-0.010
SE(B)******		0.015	0.016
A*******		-3.079	-3.260
AGE 55-64 AT EXAM			
MEN			
B*******		-0.006	-0.004
SE(B)******		0.004	0.004
A*******		-1.351	-1.642
WOMEN			
B*******		0.010	0.012
SE(B)******		0.007	0.007
A*******		-2.495	-2.719

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 2-10-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	29	32		12138	81	67		8258	111	134		2328	34	146	
NONE	996	4	40	38.8	1754	9	51	66.7	1666	29	174	138.2	504	10	198	174.8
000-009	2250	7	31	38.9	2924	21	72	66.6	2064	21	102	137.7	638	9	141	171.4
010-019	1030	5	49	39.4	1252	9	72	66.4	740	12	162	135.9	210	3	143	159.2
020-029	590	2	34	39.8	812	6	74	66.2	476	2	42	134.1	164	2	122	146.9
030-039	434	2	46	40.2	866	3	35	66.0	572	11	192	132.7	180	5	278	138.9
040-049	366	1	27	40.7	588	2	34	65.8	414	5	121	130.8	104	1	96	127.4
050-059	156	1	64	41.2	256	3	117	65.6	170	1	59	129.2	68	0	0	118.7
060-069	262	1	38	41.5	486	9	185	65.4	322	6	186	127.7	88	1	114	111.6
070-079	140	2	143	42.1	242	0	0	65.2	144	3	208	125.9	44	0	0	101.8
080-457	544	2	37	44.5	954	5	52	64.2	588	6	102	118.9	196	2	102	73.7
UNKNOWN	2222	2			2004	14			1102	15			132	1		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	20	13		11376	45	40		3532	22	62	
NONE	2518	0	0	******	4550	9	20	19.8	4830	20	41	39.0	1828	10	55	46.2
000-009	3744	0	0	******	5350	8	15	14.2	3386	15	44	39.6	966	6	62	49.1
010-019	850	0	0	******	1040	0	0	3.3	462	0	0	42.2	152	0	0	62.3
020-029	456	0	0	******	628	0	0	0.9	380	0	0	44.4	154	0	0	77.0
030-039	384	0	0	******	728	0	0	0.3	482	3	62	46.7	136	1	74	94.6
040-049	136	0	0	******	268	0	0	0.0	168	0	0	50.1	54	0	0	121.0
050-059	66	0	0	******	88	0	0	0.0	62	0	0	52.7	14	0	0	154.4
060-069	204	1	49	******	324	0	0	0.0	112	1	89	55.5	28	1	357	188.0
070-079	46	0	0	******	94	0	0	0.0	34	0	0	60.2	16	0	0	255.9
080-457	94	1	106	******	186	0	0	0.0	126	2	159	71.7	10	1	1000	587.4
UNKNOWN	2748	0			2424	3			1334	4			174	3		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.001	*******	-0.000	-0.140	-0.001	0.006	-0.008	0.024
SE(B)	0.005	******	0.003	0.086	0.003	0.008	0.006	0.009
A	-4.851	*******	-4.303	-5.527	-3.560	-4.846	-3.318	-4.674

TABLE 2-11-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	78	65	51	91	75	58	1091	1124	1081	16	12	9	15	11	8
NONE	242	242	255	8	6	3	33	25	12	531	522	494	7	4	3	13	8	6
UNDER 20	147	144	139	12	10	5	82	69	36	356	376	371	4	3	3	11	8	8
20	252	253	258	30	23	21	119	91	81	152	173	163	4	4	2	26	23	12
OVER 20	213	224	226	27	25	21	127	112	93	44	47	47	1	1	1	23	21	21
UNKNOWN	4	6	5	1	1	1				8	6	6	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	115	103	93	163	141	131	870	891	925	47	36	31	54	40	34
NONE	271	266	258	33	22	21	122	83	81	593	576	560	29	20	17	49	35	30
UNDER 20	111	114	112	22	17	16	198	149	143	178	205	234	11	9	8	62	44	34
20	169	185	176	26	34	31	154	184	176	70	78	97	6	5	5	86	64	52
OVER 20	147	157	158	33	29	25	224	185	158	23	29	31	1	2	1	43	69	32
UNKNOWN	7	8	7	1	1	0				6	3	3	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	78	85	80	236	189	151	426	592	701	39	53	51	92	90	73
NONE	160	214	231	36	39	34	225	182	147	338	454	518	32	41	37	95	90	71
UNDER 20	65	84	106	16	17	17	246	202	160	62	94	125	4	8	7	65	85	56
20	68	96	122	15	13	11	221	135	90	16	29	38	1	2	4	63	69	105
OVER 20	34	54	70	10	16	18	294	296	257	8	11	16	1	1	2	125	91	125
UNKNOWN	3	2	2	1	0	0				2	4	4	1	1	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.424	0.453	0.612
SE(B)	0.114	0.125	0.151
A	-3.047	-3.331	-3.946
WOMEN			
B	0.264	0.469	0.399
SE(B)	0.271	0.298	0.348
A	-4.419	-4.973	-5.149
AGE 45-54 AT EXAM			
MEN			
B	0.206	0.306	0.257
SE(B)	0.086	0.092	0.095
A	-1.916	-2.256	-2.259
WOMEN			
B	0.177	0.275	0.163
SE(B)	0.181	0.188	0.209
A	-2.943	-3.327	-3.459
AGE 55-64 AT EXAM			
MEN			
B	0.070	0.096	0.101
SE(B)	0.122	0.109	0.109
A	-1.244	-1.549	-1.836
WOMEN			
B	-0.127	-0.070	0.131
SE(B)	0.296	0.232	0.197
A	-2.285	-2.312	-2.611

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 2-11-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	29	32		12138	81	67		8258	111	134		2328	34	146	
NONE	2800	3	11	16.0	4508	14	31	38.8	3970	39	98	105.7	1380	20	145	148.1
UNDER 20	1402	5	36	24.0	1738	10	58	54.0	1368	22	161	129.7	430	7	163	145.9
20	2444	10	41	36.0	2900	31	107	74.9	1614	26	161	159.1	288	4	139	143.8
OVER 20	2292	11	48	53.9	2928	24	82	103.8	1264	23	182	194.9	222	3	135	141.7
UNKNOWN	52	0			64	2			42	1			8	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	20	13		11376	45	40		3532	22	62	
NONE	5176	0	0	0.1	8896	7	8	7.6	8122	27	33	35.6	2824	19	67	68.2
UNDER 20	3596	0	0	0.5	3718	5	13	13.2	1986	12	60	44.3	492	2	41	30.6
20	1776	1	6	3.1	2164	4	18	23.0	838	4	48	55.2	142	0	0	13.7
OVER 20	640	1	16	19.5	840	4	48	40.1	386	2	52	68.6	56	0	0	6.1
UNKNOWN	58	0			62	0			44	0			18	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.407	1.858	0.332	0.558	0.210	0.221	-0.015	-0.808
SE(B)	0.173	0.966	0.097	0.205	0.081	0.167	0.173	0.647
A	-5.740	-11.117	-4.850	-6.492	-3.836	-4.937	-3.489	-4.281

TABLE 2-12-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: ALBUMIN IN URINE

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	78	65	51	91	75	58	1091	1124	1081	16	12	9	15	11	8
NO	816	857	865	72	63	50	88	74	58	988	1079	1031	14	11	9	14	10	9
POSSIBLE	2	0	3	0	0	0	0	****	0	7	1	5	1	0	0	143	0	0
DEFINITE	21	6	11	3	1	1	143	167	91	72	40	42	1	1	0	14	25	0
UNKNOWN	19	6	4	3	1	0				24	4	3	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	115	103	93	163	141	131	870	891	925	47	36	31	54	40	34
NO	671	718	702	107	100	90	159	139	128	794	854	880	45	34	31	57	40	35
POSSIBLE	1	0	0	0	0	0	0	****	****	7	4	6	0	0	0	0	0	0
DEFINITE	24	10	9	7	3	3	292	300	333	59	31	38	1	2	0	17	65	0
UNKNOWN	9	2	0	1	0	0				10	2	1	1	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	78	85	80	236	189	151	426	592	701	39	53	51	92	90	73
NO	308	433	509	71	81	73	231	187	143	396	570	672	31	48	47	78	84	70
POSSIBLE	1	1	5	0	0	2	0	0	400	0	1	2	0	0	0	****	0	0
DEFINITE	14	13	15	4	3	4	286	231	267	22	17	24	7	4	4	318	235	167
UNKNOWN	7	3	2	3	1	1				8	4	3	1	1	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.251	0.462	0.186
SE(B)	0.320	0.552	0.541
A	-2.337	-2.534	-2.793
WOMEN			
B	0.160	0.452	*******
SE(B)	0.438	0.530	******
A	-4.211	-4.576	*******
AGE 45-54 AT EXAM			
MEN			
B	0.377	0.487	0.612
SE(B)	0.231	0.349	0.358
A	-1.663	-1.821	-1.917
WOMEN			
B	-0.678	0.229	*******
SE(B)	0.524	0.380	******
A	-2.815	-3.186	*******
AGE 55-64 AT EXAM			
MEN			
B	0.123	0.111	0.462
SE(B)	0.304	0.336	0.281
A	-1.208	-1.471	-1.780
WOMEN			
B	0.852	0.593	0.474
SE(B)	0.247	0.296	0.285
A	-2.466	-2.388	-2.590

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 2-12-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: ALBUMIN IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	29	32		12138	81	67		8258	111	134		2328	34	146	
NO	8754	29	33	******	11852	77	65	64.8	7830	104	133	132.1	2186	30	137	138.8
POSSIBLE	20	0	0	******	42	0	0	108.7	74	0	0	150.0	16	1	625	197.1
DEFINITE	142	0	0	******	208	4	192	181.3	320	6	188	170.2	120	3	250	278.5
UNKNOWN	74	0			36	0			34	1			6	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	20	13		11376	45	40		3532	22	62	
NO	10630	2	2	******	14958	20	13	******	10886	43	40	39.8	3364	17	51	51.4
POSSIBLE	90	0	0	******	134	0	0	******	112	1	89	38.8	32	1	313	136.2
DEFINITE	450	0	0	******	550	0	0	******	338	1	30	37.9	122	4	328	351.0
UNKNOWN	76	0			38	0			40	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.527	*******	0.130	-0.024	0.363	0.992
SE(B)	******	******	0.265	******	0.219	0.433	0.294	0.277
A	*******	*******	-4.333	*******	-3.607	-4.826	-3.556	-4.568

TABLE 2-13-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: SUGAR IN URINE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	78	65	51	91	75	58	1091	1124	1081	16	12	9	15	11	8	
																			MEN
NO	818	859	873	72	64	50	88	75	57	1055	1116	1073	15	12	9	14	11	8	B 0.318******* 0.596
POSSIBLE	13	2	0	2	0	0	154	0	****	7	0	0	0	0	0	0	****	****	SE(B) 0.432 ****** 0.553
DEFINITE	8	2	6	1	0	1	125	0	167	5	4	5	1	0	0	200	0	0	A -2.334******* -2.801
UNKNOWN	19	6	4	3	1	0				24	4	3	0	0	0				WOMEN
																			B 1.314**********
																			SE(B) 0.587 ****** ******
																			A -4.251**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	115	103	93	163	141	131	870	891	925	47	36	31	54	40	34	
																			MEN
NO	665	704	689	108	96	89	162	136	129	840	879	913	46	36	31	55	41	34	B 0.225 0.645 0.326
POSSIBLE	20	11	10	3	2	1	150	182	100	11	1	1	0	0	0	0	0	0	SE(B) 0.309 0.275 0.328
DEFINITE	11	13	12	3	5	3	273	385	250	9	9	10	0	0	0	0	0	0	A -1.645 -1.849 -1.913
UNKNOWN	9	2	0	1	0	0				10	2	1	1	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	78	85	80	236	189	151	426	592	701	39	53	51	92	90	73	
																			MEN
NO	309	437	512	69	80	74	223	183	145	404	572	684	34	49	48	84	86	70	B 0.598 0.605 0.581
POSSIBLE	9	1	4	4	0	0	444	0	0	5	4	1	1	0	0	200	0	0	SE(B) 0.387 0.339 0.290
DEFINITE	5	9	13	2	4	5	400	444	385	9	12	13	3	3	3	333	250	231	A -1.238 -1.498 -1.785
UNKNOWN	7	3	2	3	1	1				8	4	3	1	1	0				WOMEN
																			B 0.859 0.573 0.677
																			SE(B) 0.351 0.344 0.338
																			A -2.385 -2.374 -2.585

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 2-13-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: SUGAR IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	29	32		12138	81	67		8258	111	134		2328	34	146	
NO	8804	29	33	******	11802	76	64	64.3	7946	102	128	128.3	2214	27	122	121.0
POSSIBLE	48	0	0	******	114	1	88	115.1	54	1	185	200.5	14	0	0	303.8
DEFINITE	72	0	0	******	188	4	213	204.5	224	7	313	310.7	94	7	745	722.1
UNKNOWN	66	0			34	0			34	1			6	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	20	13		11376	45	40		3532	22	62	
NO	11088	1	1	0.9	15466	19	12	12.2	11132	42	38	38.0	3456	19	55	54.7
POSSIBLE	20	0	0	12.1	46	0	0	29.5	50	1	200	74.9	10	0	0	180.0
DEFINITE	62	1	161	159.3	132	1	76	70.6	158	2	127	146.4	52	3	577	559.6
UNKNOWN	76	0			36	0			36	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	2.609	0.593	0.882	0.461	0.685	0.959	1.216
SE(B)	******	0.717	0.257	0.526	0.199	0.337	0.228	0.330
A	*******	-8.632	-4.341	-6.010	-3.637	-4.872	-3.697	-4.504

TABLE 2-14-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	78	65	51	91	75	58	1091	1124	1081	16	12	9	15	11	8
NO	765	770	806	63	58	45	82	75	56	951	1017	1011	13	9	7	14	9	7
POSSIBLE	26	34	41	6	1	5	231	29	122	55	39	36	1	1	0	18	26	0
DEFINITE	63	64	36	9	6	1	143	94	28	81	67	33	2	2	2	25	30	61
UNKNOWN	4	1	0	0	C	0				4	1	1	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	115	103	93	163	141	131	870	891	925	47	36	31	54	40	34
NO	561	634	629	88	83	78	157	131	124	620	673	747	28	23	22	45	34	29
POSSIBLE	22	39	41	5	11	7	227	282	171	59	76	100	6	4	4	102	53	40
DEFINITE	118	57	41	21	9	8	178	158	195	185	142	78	13	9	5	70	63	64
UNKNOWN	4	0	0	1	C	0				6	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	78	85	80	236	189	151	426	592	701	39	53	51	92	90	73
NO	241	349	436	54	60	55	224	172	126	250	356	455	18	23	24	72	65	53
POSSIBLE	15	41	45	1	8	11	67	195	244	34	76	107	2	4	5	59	53	47
DEFINITE	73	60	50	23	17	14	315	283	280	138	160	139	19	26	22	138	163	158
UNKNOWN	1	0	0	C	0	0				4	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.385	0.047	0.049
SE(B)	0.177	0.229	0.318
A	-2.386	-2.523	-2.799
WOMEN			
B	0.300	0.651	1.041
SE(B)	0.371	0.377	0.433
A	-4.279	-4.700	-5.015
AGE 45-54 AT EXAM			
MEN			
B	0.090	0.232	0.286
SE(B)	0.131	0.168	0.191
A	-1.673	-1.861	-1.952
WOMEN			
B	0.260	0.331	0.395
SE(B)	0.166	0.198	0.246
A	-3.007	-3.333	-3.502
AGE 55-64 AT EXAM			
MEN			
B	0.204	0.3C7	0.533
SE(B)	0.149	0.156	0.164
A	-1.276	-1.582	-1.915
WOMEN			
B	0.361	0.517	0.598
SE(B)	0.177	0.157	0.163
A	-2.596	-2.753	-2.981

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 2-14-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	29	32		12138	81	67		8258	111	134		2328	34	146	
NO	8168	25	31	31.6	10342	62	60	60.2	6422	76	118	116.3	1564	21	134	128.4
POSSIBLE	372	3	81	36.2	864	8	93	85.9	834	11	132	162.8	362	4	110	160.9
DEFINITE	440	1	23	41.5	924	11	119	122.2	1000	24	240	227.1	402	9	224	201.2
UNKNOWN	10	0			8	0			2	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	20	13		11376	45	40		3532	22	62	
NO	10340	1	1	0.9	12730	13	10	10.9	7236	17	23	27.5	1734	9	52	45.8
POSSIBLE	398	0	0	4.1	1362	4	29	16.4	1822	14	77	44.9	650	2	31	63.1
DEFINITE	492	1	20	18.7	1576	3	19	24.6	2310	14	61	73.2	1148	11	96	86.7
UNKNOWN	16	0			12	0			8	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.137	1.524	0.360	0.409	0.346	0.494	0.232	0.323
SE(B)	0.360	0.738	0.157	0.280	0.119	0.166	0.208	0.239
A	-5.057	-8.635	-4.407	-6.126	-3.737	-5.197	-3.636	-4.683

TABLE 2-15-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	78	65	51	91	75	58	1091	1124	1081	16	12	9	15	11	8	
																			MEN
NO	834	836	853	76	63	50	91	75	59	1081	1105	1062	16	12	9	15	11	8	B -0.000 -0.346 -0.610
POSSIBLE	15	25	25	1	2	1	67	80	40	7	15	15	0	0	0	0	0	0	SE(B) 0.493 0.639 0.942
DEFINITE	9	8	5	1	0	0	111	0	0	3	4	4	0	0	0	0	0	0	A -2.303 -2.502 -2.774
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	115	103	93	163	141	131	870	891	925	47	36	31	54	40	34	
																			MEN
NO	672	685	664	104	93	83	155	136	125	839	848	889	46	35	30	55	41	34	B 0.664 0.430 0.488
POSSIBLE	18	24	27	5	4	4	278	167	148	15	30	25	1	1	1	67	33	40	SE(B) 0.244 0.231 0.234
DEFINITE	15	21	20	6	6	6	400	286	300	16	13	11	0	0	0	0	0	0	A -1.696 -1.855 -1.953
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B -0.612 -0.623 -0.337
																			SE(B) 0.820 0.888 0.868
																			A -2.841 -3.141 -3.348
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	78	85	80	236	189	151	426	592	701	39	53	51	92	90	73	
																			MEN
NO	300	405	477	62	68	66	207	168	138	410	537	629	37	46	44	90	86	70	B 0.960 0.701 0.579
POSSIBLE	13	24	27	5	8	4	385	333	148	6	32	41	1	3	3	167	94	73	SE(B) 0.245 0.212 0.202
DEFINITE	17	21	27	11	9	10	647	429	370	10	23	31	1	4	4	100	174	129	A -1.348 -1.592 -1.846
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 0.151 0.352 0.290
																			SE(B) 0.469 0.270 0.265
																			A -2.305 -2.377 -2.596

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TA8LE 2-15-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORDNARY HEART DISEASE DTHER THAN ANGINA PECTORIS
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY 8Y ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSDN YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	29	32		12138	81	67		8258	111	134		2328	34	146	
ND	8680	27	31	31.6	11390	75	66	65.4	7398	84	114	110.9	1994	24	120	120.4
POSSI8LE	246	2	81	46.2	502	3	60	81.0	508	8	157	234.9	182	4	220	219.8
DEFINITE	64	0	0	67.5	246	3	122	100.3	352	19	540	483.9	152	6	395	394.7
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TDTAL	11246	2	2		15680	20	13		11376	45	40		3532	22	62	
ND	11052	1	1	0.8	15156	20	13	******	10370	41	40	39.8	3066	13	42	45.5
PDSSI8LE	138	0	0	11.8	382	0	0	******	636	3	47	37.5	278	5	180	110.7
DEFINITE	56	1	179	164.0	142	0	0	******	370	1	27	35.3	188	4	213	263.9
UNKNDWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	0.383	2.659	0.217	*******	0.776	-0.060	0.623	0.901
SE(B)	0.609	0.744	0.281	******	0.133	0.378	0.228	0.261
A	-5.058	-8.702	-4.324	*******	-3.786	-4.824	-3.702	-4.690

TABLE 2-16-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	78	65	51	91	75	58	1091	1124	1081	16	12	9	15	11	8
NO	840	851	859	76	63	49	90	74	57	1074	1109	1068	15	12	9	14	11	8
YES	18	18	24	2	2	2	111	111	83	17	15	13	1	0	0	59	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	115	103	93	163	141	131	870	891	925	47	36	31	54	40	34
NO	684	709	687	106	97	89	155	137	130	849	858	894	44	36	31	52	42	35
YES	21	21	24	9	6	4	429	286	167	21	33	31	3	0	0	143	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	78	85	80	236	189	151	426	592	701	39	53	51	92	90	73
NO	320	431	501	74	79	71	231	183	142	414	561	653	35	46	44	85	82	67
YES	10	19	30	4	6	9	400	316	300	12	31	48	4	7	7	333	226	146
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.228	0.447	0.407
SE(B)	0.760	0.761	0.753
A	-2.308	-2.526	-2.805
WOMEN			
B	1.484**********		
SE(B)	1.063 ******	******	
A	-4.257**********		
AGE 45-54 AT EXAM			
MEN			
B	1.408	0.926	0.296
SE(B)	0.453	0.495	0.559
A	-1.696	-1.842	-1.905
WOMEN			
B	1.115**********		
SE(B)	0.643 ******	******	
A	-2.907**********		
AGE 55-64 AT EXAM			
MEN			
B	0.796	0.721	0.954
SE(B)	0.659	0.509	0.418
A	-1.201	-1.494	-1.801
WOMEN			
B	1.689	1.183	0.860
SE(B)	0.637	0.456	0.438
A	-2.382	-2.416	-2.628

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 2-16-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORDNARY HEART DISEASE OTHER THAN ANGINA PECTDRIS
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	29	32		12138	81	67		8258	111	134		2328	34	146	
ND	8768	24	27	27.4	11624	75	65	64.5	7770	103	133	132.6	2142	27	126	126.1
YES	222	5	225	225.2	514	6	117	116.7	488	8	164	163.9	186	7	376	376.3
UNKNDWN	0	0			0	0			0	0			0	0		
	WDMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	20	13		11376	45	40		3532	22	62	
ND	11048	2	2	1.8	15160	17	11	11.2	10722	41	38	38.2	3260	17	52	52.1
YES	198	0	0	0.0	520	3	58	57.7	654	4	61	61.2	272	5	184	183.8
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WDMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	2.148	*******	0.604	1.647	0.219	0.474	1.147	1.287
SE(B)	0.501	******	0.429	0.629	0.373	0.527	0.439	0.517
A	-5.202	*******	-4.337	-6.098	-3.603	-4.866	-3.655	-4.553

TABLE 2-17-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: DIABETES MELLITUS

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	78	65	51	91	75	58	1091	1124	1081	16	12	9	15	11	8
NO	846	859	873	77	65	50	91	76	57	1083	1118	1075	15	11	8	14	10	7
YES	12	10	10	1	0	1	83	0	100	8	6	6	1	1	1	125	167	167
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	115	103	93	163	141	131	870	891	925	47	36	31	54	40	34
NO	683	705	690	108	95	89	158	135	129	849	876	904	45	34	29	53	39	32
YES	22	25	21	7	8	4	318	320	190	21	15	21	2	2	2	95	133	95
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	78	85	80	236	189	151	426	592	701	39	53	51	92	90	73
NO	316	432	510	73	80	74	231	185	145	414	567	673	35	47	46	85	83	68
YES	14	18	21	5	5	6	357	278	286	12	25	28	4	6	5	333	240	179
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	-0.097*******		0.604
SE(B)	1.051 ******		1.064
A	-2.301*******		-2.801
WOMEN			
B	2.320	3.002	3.284
SE(B)	1.100	1.137	1.151
A	-4.265	-4.612	-4.893
AGE 45-54 AT EXAM			
MEN			
B	0.910	1.106	0.463
SE(B)	0.470	0.443	0.567
A	-1.672	-1.860	-1.910
WOMEN			
B	0.632	1.338	1.156
SE(B)	0.759	0.779	0.767
A	-2.883	-3.209	-3.407
AGE 55-64 AT EXAM			
MEN			
B	0.615	0.526	0.857
SE(B)	0.574	0.541	0.499
A	-1.203	-1.482	-1.774
WOMEN			
B	1.689	1.251	1.086
SE(B)	0.637	0.492	0.517
A	-2.382	-2.404	-2.612

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 2-17-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: DIABETES MELLITUS

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	29	32		12138	81	67		8258	111	134		2328	34	146	
NO	8896	29	33	32.6	11788	76	64	64.5	7866	105	133	133.5	2172	28	129	128.9
YES	94	0	0	0.0	350	5	143	142.9	392	6	153	153.1	156	6	385	384.6
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	20	13		11376	45	40		3532	22	62	
NO	11168	1	1	0.9	15404	18	12	11.7	10974	42	38	38.3	3330	19	57	57.1
YES	78	1	128	128.2	276	2	72	72.5	402	3	75	74.6	202	3	149	148.5
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	4.990	0.812	1.837	0.141	0.675	1.147	0.975
SE(B)	******	1.424	0.468	0.750	0.426	0.602	0.466	0.630
A	*******	-8.627	-4.338	-6.057	-3.596	-4.865	-3.632	-4.462

TABLE 2-18-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: HYPERTENSION

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	78	65	51	91	75	58	1091	1124	1081	16	12	9	15	11	8	
																			MEN
NO	379	499	593	27	31	24	71	62	40	707	872	870	9	7	6	13	8	7	B 0.318 0.377 0.518
BORDER	351	262	209	35	20	20	100	76	96	291	187	168	6	5	2	21	27	12	SE(B) 0.162 0.170 0.191
DEFINITE	128	108	81	16	14	7	125	130	86	93	65	43	1	0	1	11	0	23	A -2.549 -2.754 -3.066
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 0.145 0.357 0.598
																			SE(B) 0.371 0.434 0.496
																			A -4.275 -4.652 -4.977
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	115	103	93	163	141	131	870	891	925	47	36	31	54	40	34	
																			MEN
NO	281	369	389	27	44	40	96	119	103	306	415	506	5	10	10	16	24	20	B 0.434 0.221 0.273
BORDER	262	236	213	55	38	37	210	161	174	357	298	256	23	15	10	64	50	39	SE(B) 0.131 0.137 0.144
DEFINITE	162	125	109	33	21	16	204	168	147	207	178	163	19	11	11	92	62	67	A -2.034 -1.964 -2.074
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 0.768 0.488 0.639
																			SE(B) 0.208 0.213 0.221
																			A -3.694 -3.593 -3.884
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	78	85	80	236	189	151	426	592	701	39	53	51	92	90	73	
																			MEN
NO	119	201	273	14	25	28	118	124	103	101	160	252	4	8	11	40	50	44	B 0.696 0.487 0.418
BORDER	125	153	157	33	34	32	264	222	204	176	228	247	15	20	18	85	88	73	SE(B) 0.173 0.153 0.151
DEFINITE	86	96	101	31	26	20	360	271	198	149	204	202	20	25	22	134	123	109	A -1.876 -1.875 -2.049
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 0.614 0.464 0.487
																			SE(B) 0.244 0.195 0.186
																			A -3.064 -2.871 -3.062

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 2-18-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: HYPERTENSION

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	29	32		12138	81	67		8258	111	134		2328	34	146	
NO	5330	13	24	23.3	6302	28	44	45.6	3786	32	85	93.5	932	6	64	75.7
BORDER	2636	9	34	38.4	3740	29	78	73.5	2646	44	166	140.6	886	15	169	145.4
DEFINITE	1024	7	68	62.9	2096	24	115	118.1	1826	35	192	210.3	510	13	255	275.6
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	20	13		11376	45	40		3532	22	62	
NO	8552	1	1	0.8	8690	7	8	10.7	4098	6	15	21.4	840	3	36	24.1
BORDER	2036	0	0	3.0	4564	11	24	13.9	4114	21	51	37.5	1404	5	36	49.5
DEFINITE	658	1	15	10.6	2426	2	8	17.9	3164	18	57	65.7	1288	14	109	101.1
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.500	1.283	0.483	0.255	0.417	0.565	0.667	0.725
SE(B)	0.239	0.846	0.138	0.284	0.118	0.196	0.229	0.325
A	-5.362	-8.718	-4.688	-6.141	-3.960	-5.449	-4.175	-5.330

TABLE 2-19-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: GLUCOSE INTOLERANCE

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	78	65	51	91	75	58	1091	1124	1081	16	12	9	15	11	8
NO	820	850	864	75	64	48	91	75	56	1068	1108	1062	14	10	7	13	9	7
YES	38	19	19	3	1	3	79	53	158	23	16	19	2	2	2	87	125	105
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	115	103	93	163	141	131	870	891	925	47	36	31	54	40	34
NO	657	680	672	103	89	86	157	131	128	830	866	892	45	33	29	54	38	33
YES	48	50	39	12	14	7	250	280	179	40	25	33	2	3	2	50	120	61
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	78	85	80	236	189	151	426	592	701	39	53	51	92	90	73
NO	304	423	492	67	79	73	220	187	148	395	552	653	33	45	45	84	82	69
YES	26	27	39	11	6	7	423	222	179	31	40	48	6	8	6	194	200	125
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	-0.161	-0.382	1.159
SE(B)	0.614	1.036	0.646
A	-2.296	-2.508	-2.833
WOMEN			
B	1.970	2.753	2.875
SE(B)	0.787	0.820	0.838
A	-4.321	-4.699	-5.015
AGE 45-54 AT EXAM			
MEN			
B	0.584	0.949	0.399
SE(B)	0.350	0.335	0.433
A	-1.682	-1.893	-1.919
WOMEN			
B	-0.085	1.236	0.652
SE(B)	0.741	0.641	0.754
A	-2.859	-3.229	-3.393
AGE 55-64 AT EXAM			
MEN			
B	0.953	0.218	0.228
SE(B)	0.420	0.479	0.436
A	-1.263	-1.471	-1.747
WOMEN			
B	0.968	1.036	0.658
SE(B)	0.490	0.425	0.463
A	-2.395	-2.422	-2.604

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 2-19-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CORONARY HEART DISEASE OTHER THAN ANGINA PECTORIS
CHARACTERISTIC: GLUCOSE INTOLERANCE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	29	32		12138	81	67		8258	111	134		2328	34	146	
NO	8716	28	32	32.1	11458	70	61	61.1	7612	98	129	128.7	2098	25	119	119.2
YES	274	1	36	36.5	680	11	162	161.8	646	13	201	201.2	230	9	391	391.3
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	20	13		11376	45	40		3532	22	62	
NO	11060	1	1	0.9	15182	17	11	11.2	10684	41	38	38.4	3202	19	59	59.3
YES	186	1	54	53.8	498	3	60	60.2	692	4	58	57.8	330	3	91	90.9
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.128	4.096	0.994	1.693	0.462	0.414	1.246	0.433
SE(B)	1.021	1.418	0.329	0.630	0.301	0.527	0.402	0.627
A	-5.041	-8.618	-4.393	-6.099	-3.633	-4.862	-3.713	-4.422

TABLE 3-1-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	54	44	35	63	51	40	1091	1124	1081	9	9	7	8	8	6
074-109	35	71	91	2	2	2	57	28	22	101	204	247	1	1	0	10	5	0
110-119	115	163	190	8	9	11	70	55	58	234	310	312	2	2	3	9	6	10
120-129	183	215	246	8	10	7	44	47	28	279	267	263	2	0	2	7	0	8
130-139	236	203	181	15	10	4	64	49	22	212	180	138	1	2	0	5	11	0
140-149	154	123	99	11	7	5	71	57	51	120	83	66	1	2	1	8	24	15
150-159	56	49	37	4	4	4	71	82	108	68	43	28	1	2	0	15	47	0
160-169	41	22	20	0	1	0	0	45	0	46	17	14	0	0	0	0	0	0
170-179	23	12	9	4	1	1	174	83	111	18	9	6	1	0	0	56	0	0
180-189	7	6	8	2	0	1	286	0	125	6	8	2	0	0	0	0	0	0
190-300	8	5	2	0	0	0	0	0	0	7	3	5	0	0	1	0	0	200
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	72	66	61	102	90	86	870	891	925	22	17	15	25	19	16
074-109	23	49	53	0	4	2	0	82	38	23	50	104	0	0	0	0	0	0
110-119	82	119	134	7	7	10	85	59	75	66	128	163	0	1	2	0	8	12
120-129	145	163	160	16	15	17	110	92	106	140	153	172	1	2	1	7	13	6
130-139	136	163	141	15	17	11	110	104	78	174	178	167	4	2	4	23	11	24
140-149	123	106	105	11	13	11	89	123	105	133	129	103	6	2	0	45	16	0
150-159	76	60	53	9	6	6	118	100	113	109	93	83	3	2	1	28	22	12
160-169	50	30	32	5	1	2	100	33	63	77	60	50	1	3	1	13	50	20
170-179	30	14	18	6	2	1	200	143	56	56	31	39	4	3	5	71	97	128
180-189	18	12	7	2	0	1	111	0	143	41	33	19	0	0	0	0	0	0
190-300	22	14	8	1	1	0	45	71	0	51	36	25	3	2	1	59	56	40
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	60	63	59	182	140	111	426	592	701	21	26	23	49	44	33
074-109	9	24	47	1	2	2	111	83	43	13	17	26	1	0	1	77	0	38
110-119	24	52	75	1	4	4	42	77	53	17	38	54	0	1	0	0	26	0
120-129	51	72	97	4	10	12	78	139	124	40	64	111	1	1	0	25	16	0
130-139	64	97	99	11	11	11	172	113	111	66	84	124	1	2	6	15	24	48
140-149	57	64	63	10	13	9	175	203	143	61	79	90	1	2	1	16	25	11
150-159	49	48	57	13	8	9	265	167	158	65	103	88	4	4	2	62	39	23
160-169	23	36	34	6	5	6	261	139	176	44	70	60	1	7	2	23	100	33
170-179	22	19	17	4	3	2	182	158	118	41	44	55	6	2	1	146	45	18
180-189	11	12	15	2	1	0	182	83	0	24	31	36	2	2	3	83	65	83
190-300	20	26	27	8	6	4	400	231	148	55	62	57	4	5	7	73	81	123
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.009	0.005	0.011
SE(B)	0.008	0.009	0.009
A	-3.874	-3.555	-4.543
WOMEN			
B	0.007	0.023	0.029
SE(B)	0.017	0.013	0.015
A	-5.670	-7.684	-8.661
AGE 45-54 AT EXAM			
MEN			
B	0.005	0.003	0.002
SE(B)	0.006	0.006	0.007
A	-2.808	-2.771	-2.590
WOMEN			
B	0.013	0.016	0.023
SE(B)	0.006	0.007	0.008
A	-5.578	-6.305	-7.334
AGE 55-64 AT EXAM			
MEN			
B	0.018	0.009	0.009
SE(B)	0.005	0.005	0.005
A	-4.213	-3.090	-3.358
WOMEN			
B	0.015	0.017	0.020
SE(B)	0.006	0.006	0.006
A	-5.391	-5.844	-6.534

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 3-1-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	17	19		12138	52	43		8258	77	93		2328	27	116	
074-109	718	1	14	10.6	742	2	27	30.4	494	1	20	63.3	120	0	0	53.2
110-119	1736	2	12	13.1	2036	7	34	34.1	1020	7	69	70.5	202	0	0	65.2
120-129	2308	5	22	15.8	2638	9	34	37.6	1512	13	86	77.3	326	4	123	75.2
130-139	2046	3	15	19.4	2638	6	23	41.8	1552	11	71	85.5	430	2	47	89.3
140-149	1172	1	9	23.5	1742	13	75	46.4	1246	13	104	94.1	394	10	254	104.4
150-159	522	2	38	28.8	1060	7	66	51.5	882	14	159	103.9	312	1	32	121.6
160-169	252	1	40	34.6	584	5	86	56.9	562	5	89	114.1	202	3	149	141.1
170-179	130	2	154	42.1	310	2	65	63.0	396	5	126	125.6	100	2	200	164.9
180-189	62	0	0	51.7	204	1	49	70.3	232	3	129	137.7	86	1	116	196.3
190-300	44	0	0	82.2	184	0	0	87.4	362	5	138	173.8	156	4	256	298.8
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	12	8		11376	20	18		3532	12	34	
074-109	2024	0	0	******	1398	0	0	4.9	444	0	0	4.7	68	0	0	9.0
110-119	2962	0	0	******	2668	1	4	5.6	1034	1	10	6.2	200	1	50	11.6
120-129	2710	1	4	******	3082	1	3	6.4	1558	1	6	7.9	300	1	33	14.3
130-139	1786	0	0	******	3046	4	13	7.2	1904	1	5	10.0	504	0	0	18.2
140-149	898	0	0	******	1978	1	5	8.2	1666	1	6	12.7	576	2	35	22.4
150-159	454	0	0	******	1388	3	22	9.2	1526	0	0	16.1	514	0	0	27.9
160-169	218	0	0	******	792	1	13	10.4	1070	4	37	20.3	438	0	0	34.4
170-179	94	0	0	******	528	1	19	11.8	792	2	25	25.8	344	1	29	43.0
180-189	52	0	0	******	390	0	0	13.3	580	6	103	32.6	224	3	134	53.8
190-300	48	1	208	******	410	0	0	19.7	802	4	50	66.8	364	4	110	94.6
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.020	*******	0.011	0.012	0.010	0.024	0.016	0.022
SE(B)	0.012	******	0.006	0.010	0.004	0.006	0.006	0.009
A	-8.254	*******	-6.191	-8.200	-5.392	-9.445	-6.192	-8.607

TABLE 3-2-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	54	44	35	63	51	40	1091	1124	1081	9	9	7	8	8	6
020-069	44	79	92	3	4	2	68	51	22	103	205	229	0	2	2	0	10	9
070-074	108	136	152	2	4	5	19	29	33	198	251	263	1	1	1	5	4	4
075-079	71	92	116	6	6	3	85	65	26	136	154	188	4	1	0	29	6	0
080-084	194	207	185	9	8	9	46	39	49	275	248	179	1	1	1	4	4	6
085-089	112	101	126	11	5	4	98	50	32	102	106	97	0	1	2	0	9	21
090-094	154	115	104	8	5	5	52	43	48	144	76	64	1	2	0	7	26	0
095-099	62	65	43	3	9	0	48	138	0	51	34	29	1	1	0	20	29	0
100-104	63	32	35	9	1	5	143	31	143	50	27	19	0	0	0	0	0	0
105-109	11	21	15	0	1	1	0	48	67	11	13	5	1	0	1	91	0	200
110-160	39	21	15	3	1	1	77	48	67	21	10	8	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	72	66	61	102	90	86	870	891	925	22	17	15	25	19	16
020-069	20	59	65	1	4	4	50	68	62	21	63	99	0	0	1	0	0	10
070-074	67	77	93	4	6	7	60	78	75	74	123	129	0	0	1	0	0	8
075-079	55	90	92	5	9	8	91	100	87	80	101	135	1	1	1	13	10	7
080-084	174	142	142	14	12	13	80	85	92	191	187	203	4	3	2	21	16	10
085-089	74	101	99	7	8	9	95	79	91	100	112	120	1	2	2	10	18	17
090-094	127	109	86	21	11	8	165	101	93	159	124	89	7	2	2	44	16	22
095-099	56	57	59	8	9	6	143	158	102	69	55	59	0	3	2	0	55	34
100-104	69	53	31	6	5	3	87	94	97	77	51	38	2	1	0	26	20	0
105-109	21	16	18	0	1	1	0	63	56	26	21	15	2	1	2	77	48	133
110-160	42	26	26	6	1	2	143	38	77	73	54	38	5	4	2	68	74	53
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	60	63	59	182	140	111	426	592	701	21	26	23	49	44	33
020-069	17	37	54	3	4	5	176	108	93	13	31	47	0	1	1	0	32	21
070-074	31	63	82	4	5	7	129	79	85	35	68	81	1	2	2	29	29	25
075-079	40	61	61	5	6	4	125	98	66	27	55	77	0	0	1	0	0	13
080-084	70	84	113	6	14	11	86	167	97	73	107	147	1	2	3	14	19	20
085-089	36	42	59	8	4	8	222	95	136	54	72	99	2	1	2	37	14	20
090-094	53	67	60	13	11	11	245	164	183	80	87	97	3	6	3	38	69	31
095-099	22	29	35	4	7	3	182	241	86	34	57	53	4	2	4	118	35	75
100-104	26	29	20	7	5	5	269	172	250	49	49	40	5	5	2	102	102	50
105-109	7	7	16	1	1	1	143	143	63	12	20	24	2	3	2	167	150	83
110-160	28	31	31	9	6	4	321	194	129	49	46	36	3	4	3	61	87	83
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.017	0.011	0.031
SE(B)	0.011	0.013	0.014
A	-4.218	-3.854	-5.745
WOMEN			
B	0.016	0.013	0.034
SE(B)	0.027	0.028	0.028
A	-6.082	-5.845	-7.715
AGE 45-54 AT EXAM			
MEN			
B	0.011	0.005	0.005
SE(B)	0.009	0.010	0.011
A	-3.188	-2.778	-2.795
WOMEN			
B	0.040	0.044	0.038
SE(B)	0.013	0.014	0.016
A	-7.404	-7.873	-7.357
AGE 55-64 AT EXAM			
MEN			
B	0.028	0.016	0.012
SE(B)	0.010	0.009	0.009
A	-4.039	-3.204	-3.062
WOMEN			
B	0.031	0.036	0.036
SE(B)	0.012	0.013	0.015
A	-5.871	-6.374	-6.581

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 3-2-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	17	19		12138	52	43		8258	77	93		2328	27	116	
020-069	724	0	0	6.8	746	5	67	30.9	640	5	78	74.8	276	1	36	76.8
070-074	1314	1	8	9.4	1478	6	41	34.5	1124	10	89	80.5	374	5	134	90.6
075-079	988	1	10	12.0	1232	4	32	37.3	866	5	58	84.9	256	2	78	100.1
080-084	2240	4	18	15.0	2928	6	20	40.0	1842	16	87	89.2	502	5	100	109.2
085-089	1206	4	33	19.1	1644	4	24	43.3	906	5	55	94.1	258	2	78	121.2
090-094	1174	1	9	24.1	1732	11	64	46.5	1170	20	171	98.9	294	6	204	132.6
095-099	546	3	55	30.1	828	10	121	50.1	542	4	74	104.1	104	0	0	145.3
100-104	456	2	44	37.4	840	2	24	53.6	570	5	88	109.2	130	5	385	158.6
105-109	132	0	0	47.9	268	2	75	58.0	164	1	61	115.4	30	0	0	179.9
110-160	210	1	48	76.0	442	2	45	66.4	434	6	138	128.1	104	1	96	222.3
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	12	8		11376	20	18		3532	12	34	
020-069	1910	1	5	******	1412	0	0	3.4	742	0	0	4.5	280	0	0	9.1
070-074	2420	0	0	******	2446	2	8	4.4	1356	1	7	6.5	408	2	49	13.2
075-079	1592	0	0	******	1778	0	0	5.3	1050	1	10	8.5	320	0	0	17.3
080-084	2470	0	0	******	3638	0	0	6.3	2472	1	4	10.8	800	1	13	21.8
085-089	1104	0	0	******	1886	1	5	7.6	1418	1	7	14.0	358	1	28	28.4
090-094	878	0	0	******	2000	6	30	9.1	1774	5	28	18.1	572	3	52	36.1
095-099	360	1	28	******	794	0	0	10.8	754	4	53	23.3	274	0	0	46.1
100-104	290	0	0	******	806	0	0	12.9	860	1	12	29.6	278	1	36	58.4
105-109	100	0	0	******	258	3	116	15.7	282	1	35	38.6	52	0	0	75.6
110-160	122	0	0	******	662	0	0	24.8	668	5	75	69.3	190	4	211	134.3
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.047	*******	0.015	0.036	0.011	0.051	0.020	0.050
SE(B)	0.018	******	0.011	0.018	0.008	0.014	0.013	0.018
A	-9.635	*******	-6.040	-9.625	-4.865	-10.288	-5.398	-9.532

TABLE 3-3-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	54	44	35	63	51	40	1091	1124	1081	9	9	7	8	8	6	
096-189	140	171	173	5	7	4	36	41	23	210	333	330	1	3	1	5	9	3	MEN
190-204	94	99	115	4	1	4	43	10	35	133	206	187	0	0	2	0	0	11	B 0.006 0.007 0.008
205-219	57	136	141	1	5	4	18	37	28	85	151	155	0	0	1	0	0	6	SE(B) 0.003 0.003 0.003
220-234	108	143	131	8	7	3	74	49	23	98	135	131	0	0	0	0	0	0	A -4.191 -4.617 -5.174
235-249	50	93	99	3	3	2	60	32	20	50	90	96	0	0	0	0	0	0	
250-264	50	69	75	4	4	4	80	58	53	46	56	56	1	0	0	22	0	0	WOMEN
265-279	28	53	45	2	5	5	71	94	111	22	55	36	1	2	1	45	36	28	B******* 0.020 0.019
280-294	18	31	37	1	5	3	56	161	81	16	28	29	0	1	1	0	36	34	SE(B)****** 0.006 0.006
295-309	12	20	23	2	1	4	167	50	174	6	17	25	0	1	0	0	59	0	A******* -9.519 -9.269
310-696	17	28	31	1	3	1	59	107	32	3	15	14	1	1	1	333	67	71	
UNKNOWN	284	26	13	23	3	1				422	38	22	5	1	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	72	66	61	102	90	86	870	891	925	22	17	15	25	19	16	
096-189	76	95	89	4	4	3	53	42	34	73	101	107	0	1	0	0	10	0	MEN
190-204	59	95	84	9	8	6	153	84	71	41	89	96	0	1	1	0	11	10	B 0.011 0.007 0.009
205-219	50	110	128	2	8	5	40	73	39	55	114	114	0	1	0	0	9	0	SE(B) 0.004 0.003 0.003
220-234	65	124	115	6	11	14	92	89	122	83	143	136	0	1	1	0	7	7	A -4.714 -3.930 -4.379
235-249	47	105	89	2	10	9	43	95	101	41	109	133	2	1	1	49	9	8	
250-264	38	68	80	3	13	11	79	191	138	35	81	96	1	4	3	29	49	31	WOMEN
265-279	25	45	46	3	4	3	120	89	65	40	75	75	2	2	1	50	27	13	B 0.014 0.014 0.017
280-294	26	38	31	4	5	3	154	132	97	30	55	54	0	0	1	0	0	19	SE(B) 0.007 0.004 0.004
295-309	14	19	17	2	0	6	143	0	353	24	30	36	0	1	3	0	33	83	A -7.711 -7.492 -8.385
310-696	10	19	21	4	3	1	400	158	48	38	65	66	2	4	4	53	62	61	
UNKNOWN	295	12	11	33	0	0				410	29	12	15	1	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	60	63	59	182	140	111	426	592	701	21	26	23	49	44	33	
096-189	50	80	95	7	7	7	140	88	74	13	27	35	1	3	3	77	111	86	MEN
190-204	32	59	51	5	10	3	156	169	59	19	41	46	1	1	2	53	24	43	B 0.008 0.010 0.009
205-219	29	69	87	4	7	10	138	101	115	22	48	64	1	2	1	45	42	16	SE(B) 0.004 0.003 0.003
220-234	40	57	68	9	8	7	225	140	103	46	96	92	0	3	1	0	31	11	A -3.363 -4.089 -4.074
235-249	24	47	72	3	7	8	125	149	111	28	68	84	1	1	1	36	15	12	
250-264	18	54	72	2	7	10	111	130	139	38	73	97	3	3	4	79	41	41	WOMEN
265-279	15	26	27	2	2	3	133	77	111	28	62	88	1	2	4	36	32	45	B 0.011 0.005 0.002
280-294	10	21	25	5	5	2	500	238	80	20	45	51	1	2	0	50	44	0	SE(B) 0.005 0.004 0.005
295-309	9	18	19	3	4	5	333	222	263	19	37	52	2	4	3	105	108	58	A -5.756 -4.405 -3.770
310-696	6	12	13	2	6	4	333	500	308	27	75	82	3	5	4	111	67	49	
UNKNOWN	97	7	2	18	0	0				166	20	10	7	0	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 3-3-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	17	19		12138	52	43		8258	77	93		2328	27	116	
096-189	1524	2	13	8.4	1356	4	29	26.5	980	5	51	70.8	282	1	35	76.0
190-204	994	1	10	11.1	1204	4	33	31.6	844	7	83	78.0	276	5	181	90.0
205-219	1192	1	8	13.0	1740	5	29	35.2	1088	10	92	82.6	306	4	131	98.8
220-234	1318	1	8	15.4	1774	8	45	39.2	1234	12	97	87.6	366	4	109	108.1
235-249	976	0	0	18.1	1506	6	40	43.7	1146	13	113	92.6	268	2	75	118.9
250-264	776	2	26	21.2	1346	4	30	48.2	1024	6	59	98.0	274	2	73	130.9
265-279	552	5	91	24.9	960	5	52	53.7	676	8	118	103.9	214	2	93	143.5
280-294	402	0	0	29.5	660	4	61	60.0	430	3	70	110.0	182	3	165	157.3
295-309	246	1	41	35.1	380	2	53	66.6	292	5	171	116.4	64	3	469	172.8
310-696	338	2	59	65.1	524	8	153	92.2	296	4	135	131.9	78	1	128	202.9
UNKNOWN	672	2			688	2			248	4			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	12	8		11376	20	18		3532	12	34	
096-189	2924	0	0	******	1488	0	0	3.1	440	2	45	10.7	94	1	106	8.0
190-204	1784	0	0	******	1442	1	7	3.8	578	0	0	12.3	138	0	0	11.7
205-219	1486	0	0	******	1776	1	6	4.3	870	1	11	13.3	246	0	0	14.1
220-234	1352	0	0	******	2184	1	5	4.9	1378	2	15	14.5	396	1	25	17.2
235-249	980	1	10	******	1930	2	10	5.5	1332	0	0	15.8	444	0	0	21.0
250-264	632	0	0	******	1642	0	0	6.2	1498	2	13	17.2	474	0	0	25.5
265-279	442	0	0	******	1384	0	0	7.1	1414	5	35	18.7	504	1	20	31.2
280-294	302	0	0	******	1022	0	0	8.1	1116	2	18	20.4	368	3	82	38.8
295-309	160	0	0	******	670	1	15	9.1	816	3	37	22.3	278	1	36	46.8
310-1124	182	1	55	******	1180	3	25	18.7	1506	3	20	28.2	540	5	93	79.4
UNKNOWN	1002	0			962	3			428	0			50	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	0.011	*******	0.007	0.009	0.004	0.006	0.006	0.014
SE(B)	0.004	******	0.003	0.003	0.003	0.004	0.005	0.006
A	-8.277	*******	-6.475	-8.865	-4.917	-7.143	-5.267	-8.762

TABLE 3-4-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	54	44	35	63	51	40	1091	1124	1081	9	9	7	8	8	6	
067-119	18	25	17	0	1	1	0	40	59	180	274	242	0	1	2	0	4	8	MEN
120-124	13	43	25	0	3	0	0	70	0	112	245	188	1	2	1	9	8	5	B 0.005 0.003 0.035
125-129	24	60	29	0	4	1	0	67	34	98	161	170	1	2	2	10	12	12	SE(B) 0.015 0.013 0.016
130-134	61	125	92	6	7	2	98	56	22	86	194	209	1	1	0	12	5	0	A -3.563 -3.358 -8.309
135-139	93	125	108	8	5	2	86	40	19	94	106	120	1	2	0	11	19	0	
140-144	103	147	133	2	3	5	19	20	38	47	44	70	0	0	1	0	0	14	WOMEN
145-149	68	106	193	3	6	7	44	57	36	5	20	28	0	0	1	0	0	36	B******* 0.013 0.010
150-154	84	101	109	7	8	4	83	79	37	8	15	14	0	0	0	0	0	0	SE(B)****** 0.032 0.035
155-159	43	55	98	2	2	9	47	36	92	2	8	6	0	0	0	0	0	0	A******* -6.585 -6.338
160-216	50	50	62	2	3	3	40	60	48	5	3	1	0	0	0	0	0	0	
UNKNOWN	301	32	17	24	2	1				454	54	33	5	1	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	72	66	61	102	90	86	870	891	925	22	17	15	25	19	16	
067-119	11	30	15	1	2	0	91	67	0	77	173	150	2	1	0	26	6	0	MEN
120-124	21	44	28	0	3	1	0	68	36	87	192	158	0	1	1	0	5	6	B 0.004 0.016 0.023
125-129	20	41	28	1	3	1	50	73	36	65	130	144	0	3	4	0	23	28	SE(B) 0.014 0.011 0.012
130-134	43	104	92	5	6	7	116	58	76	75	176	184	0	2	6	0	11	33	A -2.821 -4.608 -5.646
135-139	62	99	86	9	7	6	145	71	70	67	87	131	2	6	2	30	69	15	
140-144	78	119	134	4	17	14	51	143	104	34	48	63	1	2	2	29	42	32	WOMEN
145-149	49	101	125	6	9	9	122	89	72	15	23	48	1	1	0	67	43	0	B 0.094 0.059 0.019
150-154	46	88	82	5	8	11	109	91	134	10	12	18	0	0	0	0	0	0	SE(B) 0.035 0.022 0.023
155-159	28	43	63	3	6	9	107	140	143	3	5	8	1	1	0	333	200	0	A-16.483-11.657 -6.527
160-216	33	43	45	1	4	3	30	93	67	1	3	4	1	0	0	1000	0	0	
UNKNOWN	314	18	13	37	1	0				436	42	17	14	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	60	63	59	182	140	111	426	592	701	21	26	23	49	44	33	
067-119	22	31	23	4	4	2	182	129	87	42	111	96	0	2	1	0	18	10	MEN
120-124	10	22	22	1	2	2	100	91	91	44	105	109	3	6	2	68	57	18	B 0.023 0.011 0.017
125-129	12	32	32	1	3	3	83	94	94	39	92	100	1	4	4	26	43	40	SE(B) 0.014 0.011 0.012
130-134	31	72	47	2	7	3	65	97	64	50	128	173	4	7	10	80	55	58	A -4.872 -3.279 -4.466
135-139	33	69	76	9	13	11	273	188	145	38	57	87	2	1	1	53	18	11	
140-144	47	85	94	5	12	8	106	141	85	23	44	59	2	2	1	87	45	17	WOMEN
145-149	16	39	93	1	12	10	63	308	108	7	13	37	1	2	2	143	154	54	B 0.051 0.035 0.028
150-154	26	47	60	8	8	10	308	170	167	3	9	15	0	1	1	0	111	67	SE(B) 0.027 0.019 0.020
155-159	9	25	47	1	2	2	111	80	43	2	5	8	1	1	1	500	200	125	A -9.452 -7.592 -7.062
160-216	17	14	33	6	0	7	353	0	212	1	1	1	0	0	0	0	0	0	
UNKNOWN	107	14	4	22	0	1				177	27	16	7	0	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 3-4-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	17	19		12138	52	43		8258	77	93		2328	27	116	
067-119	136	1	74	11.3	148	1	68	39.0	218	1	46	71.1	48	0	0	55.1
120-124	206	0	0	12.8	264	1	38	40.1	164	2	122	76.0	16	0	0	61.5
125-129	272	1	37	13.6	286	1	35	40.8	230	2	87	78.5	44	0	0	70.1
130-134	686	2	29	14.7	820	1	12	41.5	620	5	81	81.9	98	1	102	78.0
135-139	892	0	0	15.9	1032	7	68	42.3	768	6	78	85.2	176	2	114	87.3
140-144	1288	0	0	16.9	1686	7	42	43.0	1280	7	55	88.2	322	4	124	97.6
145-149	1554	1	6	18.1	2080	9	43	43.8	1382	20	145	91.4	386	2	52	107.7
150-154	1286	4	31	19.5	1860	6	32	44.6	1210	11	91	95.0	494	5	101	121.1
155-159	980	4	41	20.9	1474	9	61	45.4	1042	8	77	98.4	342	6	175	133.8
160-216	950	2	21	23.6	1732	8	46	46.9	1054	11	104	105.7	374	7	187	165.0
UNKNOWN	740	2			756	2			290	4			28	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	12	8		11376	20	18		3532	12	34	
067-119	1962	1	5	******	1646	0	0	2.7	940	1	11	9.0	182	1	55	27.2
120-124	1586	0	0	******	1722	2	12	3.9	1040	2	19	11.7	236	0	0	30.1
125-129	1550	0	0	******	1952	0	0	4.6	1294	2	15	13.6	346	1	29	31.4
130-134	2034	0	0	******	2756	1	4	5.5	2258	3	13	15.9	628	2	32	32.9
135-139	1444	0	0	******	2534	1	4	6.7	1854	2	11	18.8	620	3	48	34.4
140-144	814	1	12	******	1784	3	17	7.9	1560	4	26	21.9	632	2	32	35.9
145-149	428	0	0	******	1238	2	16	9.5	1014	3	30	25.4	414	1	24	37.5
150-154	188	0	0	******	588	0	0	11.5	512	0	0	29.9	228	1	44	39.2
155-159	78	0	0	******	200	0	0	13.6	260	2	77	35.0	124	1	81	41.0
160-216	34	0	0	******	156	0	0	18.3	150	1	67	45.1	66	0	0	44.0
UNKNOWN	1128	0			1104	3			494	0			56	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.014	*******	0.004	0.037	0.008	0.032	0.022	0.009
SE(B)	0.022	******	0.011	0.029	0.010	0.020	0.017	0.026
A	-7.690	*******	-5.261	-11.697	-5.106	-9.950	-7.061	-6.209

TABLE 3-5-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	54	44	35	63	51	40	1091	1124	1081	9	9	7	8	8	6
062-159	251	235	126	12	7	5	48	30	40	342	441	216	2	3	1	6	7	5
160-179	83	138	72	5	9	1	60	65	14	102	193	127	0	1	0	0	5	0
180-199	99	155	113	5	7	1	51	45	9	92	151	132	0	0	0	0	0	0
200-219	45	133	124	2	4	4	44	30	32	59	150	185	1	0	1	17	0	5
220-239	32	62	121	3	4	4	94	65	33	39	73	148	1	3	1	26	41	7
240-259	30	35	105	3	4	8	100	114	76	18	32	117	0	0	1	0	0	9
260-279	16	38	75	1	1	4	63	26	53	7	22	59	0	0	0	0	0	0
280-299	3	22	60	0	2	5	0	91	83	2	12	42	0	0	1	0	0	24
300-319	4	13	32	0	0	0	0	0	0	1	4	16	0	1	0	0	250	0
320-968	6	11	38	0	3	2	0	273	53	0	6	9	0	0	1	****	0	111
UNKNOWN	289	27	17	23	3	1				429	40	30	5	1	1			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	72	66	61	102	90	86	870	891	925	22	17	15	25	19	16
062-159	154	207	110	12	16	6	78	77	55	156	201	131	3	2	1	19	10	8
160-179	64	116	78	7	10	6	109	86	77	66	113	87	0	1	0	0	9	0
180-199	45	128	88	4	13	8	89	102	91	72	140	84	0	3	2	0	21	24
200-219	48	114	106	6	12	9	125	105	85	71	166	171	2	4	2	28	24	12
220-239	20	62	87	2	7	11	100	113	126	31	94	93	0	3	3	0	32	32
240-259	27	40	75	2	5	7	74	125	93	18	63	111	0	0	3	0	0	27
260-279	23	28	58	1	1	2	43	36	34	12	51	90	0	2	2	0	39	22
280-299	9	12	46	1	1	4	111	83	87	10	18	59	0	0	0	0	0	0
300-319	4	5	23	0	1	4	0	200	174	5	6	31	1	0	0	200	0	0
320-968	5	4	26	2	0	4	400	0	154	11	7	44	1	1	1	91	143	23
UNKNOWN	306	14	14	35	0	0				418	32	24	15	1	1			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	60	63	59	182	140	111	426	592	701	21	26	23	49	44	33
062-159	86	114	72	12	10	5	140	88	69	69	75	56	4	7	1	58	93	18
160-179	48	75	57	13	13	10	271	173	175	37	77	42	0	1	1	0	13	24
180-199	25	70	64	4	10	4	160	143	63	36	105	83	2	1	5	56	10	60
200-219	29	75	72	5	12	9	172	160	125	38	122	108	2	5	4	53	41	37
220-239	14	48	81	1	5	8	71	104	99	28	75	95	1	3	2	36	40	21
240-259	8	25	76	1	4	8	125	160	105	14	44	106	0	1	0	0	23	0
260-279	13	19	44	4	5	2	308	263	45	15	30	59	2	2	4	133	67	68
280-299	3	10	20	1	2	3	333	200	150	5	23	66	0	3	3	0	130	45
300-319	0	2	25	0	1	5	****	500	200	7	9	41	1	1	1	143	111	24
320-968	2	3	18	0	0	5	0	0	278	6	9	32	2	2	2	333	222	63
UNKNOWN	102	9	2	19	1	0				171	23	13	7	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.002	0.005	0.005
SE(B)	0.003	0.003	0.003
A	-3.209	-3.928	-4.447
WOMEN			
B	*******	0.008	0.014
SE(B)	******	0.007	0.008
A	*******	-6.274	-8.152
AGE 45-54 AT EXAM			
MEN			
B	0.003	0.001	0.004
SE(B)	0.003	0.002	0.002
A	-2.858	-2.558	-3.121
WOMEN			
B	0.007	0.008	0.003
SE(B)	0.006	0.005	0.005
A	-5.431	-5.493	-4.842
AGE 55-64 AT EXAM			
MEN			
B	0.001	0.003	0.003
SE(B)	0.003	0.003	0.002
A	-1.724	-2.435	-2.787
WOMEN			
B	0.008	0.006	0.002
SE(B)	0.005	0.004	0.004
A	-4.582	-4.294	-3.854

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 3-5-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	17	19		12138	52	43		8258	77	93		2328	27	116	
062-159	1320	1	8	6.0	1130	5	44	23.6	698	3	43	82.6	60	0	0	87.4
160-179	654	1	15	8.4	636	1	16	28.0	450	3	67	85.1	64	0	0	93.8
180-199	942	1	11	10.4	818	2	24	31.1	572	7	122	86.8	46	0	0	97.7
200-219	906	0	0	12.6	1012	4	40	34.7	698	4	57	88.4	182	3	165	102.9
220-239	868	2	23	15.4	1200	4	33	38.5	892	13	146	90.0	210	4	190	107.7
240-259	934	1	11	18.5	1574	7	44	42.5	1188	13	109	91.7	460	5	109	112.8
260-279	928	1	11	22.3	1568	5	32	46.9	1240	11	89	93.3	458	5	109	118.1
280-299	638	2	31	26.8	1346	8	59	51.6	946	8	85	94.9	344	6	174	122.9
300-319	494	3	61	32.8	922	3	33	57.4	646	4	62	96.7	272	1	37	128.8
320-968	594	3	51	52.0	1186	11	93	72.6	656	7	107	100.3	214	3	140	138.4
UNKNOWN	712	2			746	2			272	4			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	12	8		11376	20	18		3532	12	34	
062-159	2236	0	0	******	1322	0	0	3.6	590	2	34	17.4	30	0	0	8.8
160-179	982	0	0	******	762	0	0	4.0	440	0	0	17.6	44	0	0	11.3
180-199	1106	0	0	******	870	0	0	4.3	596	1	17	17.8	58	0	0	13.6
200-219	1292	0	0	******	1552	1	6	4.7	948	1	11	17.9	158	1	63	16.7
220-239	1246	1	8	******	1520	2	13	5.0	916	1	11	18.1	188	0	0	19.9
240-259	1184	0	0	******	1902	1	5	5.4	1246	2	16	18.2	382	0	0	23.4
260-279	892	1	11	******	1998	2	10.	5.8	1508	5	33	18.4	574	2	35	27.6
280-299	614	0	0	******	1668	0	0	6.2	1422	1	7	18.5	586	2	34	32.6
300-319	364	0	0	******	1358	1	7	6.6	1374	4	29	18.7	666	2	30	38.3
320-968	264	0	0	******	1666	1	6	7.6	1870	3	16	19.0	782	5	64	54.6
UNKNOWN	1066	0			1062	4			466	0			64	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.010	*******	0.005	0.003	0.001	0.000	0.002	0.009
SE(B)	0.004	******	0.002	0.005	0.002	0.004	0.004	0.006
A	-8.002	*******	-6.033	-7.706	-4.210	-5.715	-4.350	-7.537

TABLE 3-6-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	54	44	35	63	51	40	1091	1124	1081	9	9	7	8	8	6
C29-C59	15	20	17	1	1	0	67	50	0	12	18	20	0	0	0	0	0	0
060-069	152	137	145	7	3	5	46	22	34	149	176	171	3	0	0	20	0	0
C70-C79	212	313	318	13	15	13	61	48	41	287	396	390	2	7	4	7	18	10
080-089	181	211	220	7	12	8	39	57	36	236	301	305	0	1	2	0	3	7
090-099	71	105	111	6	8	5	85	76	45	91	128	110	1	1	1	11	8	9
100-109	30	38	41	1	3	1	33	79	24	33	45	33	0	0	0	0	0	0
110-119	17	13	11	2	0	0	118	0	0	14	17	15	0	0	0	0	0	0
120-129	6	2	6	0	0	1	0	0	167	5	7	5	0	0	0	0	0	0
130-139	5	5	3	0	0	1	0	0	333	2	1	4	0	0	0	0	0	0
140-524	4	5	4	0	0	0	0	0	0	4	5	7	0	0	0	0	0	0
UNKNOWN	165	20	7	17	2	1				258	30	21	3	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	72	66	61	102	90	86	870	891	925	22	17	15	25	19	16
C29-059	11	15	13	1	1	1	91	67	77	5	10	13	0	0	0	0	0	0
060-069	100	98	100	8	12	7	80	122	70	86	121	121	2	3	2	23	25	17
C70-079	150	245	220	19	19	15	127	78	68	168	255	327	0	4	6	0	16	18
080-089	127	179	208	11	10	17	87	56	82	192	281	262	3	6	3	16	21	11
090-C99	79	102	90	5	12	13	63	118	144	87	112	113	3	2	3	34	18	27
100-109	19	34	41	2	4	4	105	118	98	45	46	35	1	0	0	22	0	0
110-119	13	23	13	3	2	2	231	87	154	14	23	21	1	0	0	71	0	0
120-129	2	7	5	0	2	1	0	286	200	6	2	4	0	0	0	0	0	0
130-139	6	2	1	2	0	0	333	0	0	2	4	5	0	0	0	0	0	0
140-524	14	16	14	2	4	1	143	250	71	8	13	14	1	2	1	125	154	71
UNKNOWN	184	9	6	19	0	0				257	24	10	11	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	60	63	59	182	140	111	426	592	701	21	26	23	49	44	33
C29-059	8	9	6	1	5	1	125	556	167	5	15	12	0	0	1	0	0	83
060-069	38	61	75	6	13	7	158	213	93	33	60	58	3	5	4	91	83	69
070-079	88	136	154	14	24	15	159	176	97	93	157	200	1	5	6	11	32	30
080-089	67	117	130	13	6	10	194	51	77	88	164	220	3	4	4	34	24	18
090-099	35	56	85	5	3	12	143	54	141	53	95	93	7	4	3	132	42	32
100-109	12	20	30	3	6	8	250	300	267	24	46	51	2	4	2	83	87	39
110-119	8	17	18	2	2	2	250	118	111	4	9	18	0	1	1	0	111	56
120-129	3	7	13	1	1	1	333	143	77	6	12	17	0	1	0	0	83	0
130-139	2	2	4	0	0	0	0	0	0	4	1	3	0	0	0	0	0	0
140-524	9	13	13	4	3	3	444	231	231	13	16	21	2	2	2	154	125	95
UNKNOWN	60	12	3	11	0	0				103	17	8	3	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.001	0.007	0.004
SE(B)	0.010	0.010	0.008
A	-2.964	-3.548	-3.547
WOMEN			
B	-0.039	-0.024	-0.013
SE(B)	0.039	0.030	0.032
A	-1.945	-2.935	-3.970
AGE 45-54 AT EXAM			
MEN			
B	0.005	0.005	0.006
SE(B)	0.004	0.003	0.004
A	-2.586	-2.735	-2.901
WOMEN			
B	0.015	0.008	0.001
SE(B)	0.008	0.009	0.012
A	-5.334	-4.628	-4.165
AGE 55-64 AT EXAM			
MEN			
B	0.009	0.002	0.007
SE(B)	0.005	0.005	0.004
A	-2.263	-1.940	-2.708
WOMEN			
B	0.006	0.008	0.006
SE(B)	0.005	0.004	0.004
A	-3.426	-3.765	-3.960

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 3-6-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	17	19		12138	52	43		8258	77	93		2328	27	116	
029-059	290	0	0	21.0	342	1	29	35.3	246	4	163	78.9	54	0	0	84.4
060-069	1716	4	23	19.3	2180	8	37	37.8	1320	9	68	82.6	414	3	72	92.9
070-079	2930	5	17	18.0	3916	17	43	40.4	2516	17	68	86.0	674	12	178	100.8
080-089	2086	5	24	16.8	2780	8	29	43.3	1986	17	86	89.6	522	3	57	109.7
090-099	918	1	11	15.6	1340	8	60	46.3	976	15	154	93.5	336	4	119	119.8
100-109	340	0	0	14.5	526	2	38	49.8	414	4	97	97.6	112	1	89	130.7
110-119	160	0	0	13.4	252	1	40	53.6	226	3	133	102.3	46	0	0	143.3
120-129	52	0	0	12.4	88	2	227	57.0	122	2	164	106.9	34	1	294	157.0
130-139	36	0	0	11.4	54	0	0	61.6	54	0	0	112.0	34	0	0	168.5
140-524	60	0	0	8.2	234	4	171	115.0	216	2	93	155.1	78	3	385	378.3
UNKNOWN	402	2			426	1			182	4			24	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	12	8		11376	20	18		3532	12	34	
029-059	262	0	0	******	296	0	0	5.6	240	0	0	13.2	54	0	0	24.2
060-069	1874	0	0	******	2698	2	7	5.7	1454	4	28	14.5	414	0	0	26.9
070-079	3918	1	3	******	5228	4	8	5.9	3560	3	8	15.8	1118	3	27	29.5
080-089	2916	1	3	******	3936	2	5	6.0	3068	5	16	17.1	918	4	44	32.3
090-099	1010	0	0	******	1620	0	0	6.2	1376	2	15	18.8	462	3	65	35.5
100-109	334	0	0	******	628	0	0	6.4	616	3	49	20.6	238	1	42	38.8
110-119	140	0	0	******	300	0	0	6.5	268	2	75	22.5	80	0	0	43.1
120-129	52	0	0	******	102	0	0	6.7	190	0	0	24.6	88	0	0	47.2
130-139	20	0	0	******	42	0	0	6.9	58	0	0	27.1	28	0	0	51.3
140-524	58	0	0	******	160	1	63	8.4	252	1	40	65.3	90	1	111	113.1
UNKNOWN	662	0			670	3			294	0			42	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	-0.008	*******	0.007	0.003	0.004	0.009	0.009	0.009
SE(B)	0.019	******	0.003	0.015	0.003	0.004	0.003	0.006
A	-5.054	*******	-5.347	-6.938	-4.378	-6.441	-4.566	-5.833

TABLE 3-7-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: URIC ACID (MG/LITER)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	54	44	35	63	51	40	1091	1124	1081	9	9	7	8	8	6
005-029	29	15	22	0	1	0	0	67	0	187	169	170	3	2	2	16	12	12
030-034	36	41	29	3	3	1	83	73	34	119	208	255	0	5	1	0	24	4
035-039	74	51	63	7	2	1	95	39	16	124	271	266	0	0	4	0	0	15
040-044	77	136	147	3	5	6	39	37	41	111	219	209	1	1	0	9	5	0
045-049	90	155	183	3	9	5	33	58	27	66	117	87	0	0	0	0	0	0
050-054	97	151	172	4	4	7	41	26	41	22	56	44	0	0	0	0	0	0
055-059	73	120	138	5	6	7	68	50	51	23	28	20	0	0	0	0	0	0
060-064	43	87	65	1	6	2	23	69	31	6	9	3	0	0	0	0	0	0
065-069	29	51	29	1	3	4	34	59	138	4	4	4	0	0	0	0	0	0
070-104	24	35	22	3	1	1	125	29	45	5	4	1	0	0	0	0	0	0
UNKNOWN	286	27	13	24	4	1				424	39	22	5	1	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	72	66	61	102	90	86	870	891	925	22	17	15	25	19	16
005-029	22	16	8	1	1	1	45	63	125	88	99	102	0	1	1	0	10	10
030-034	27	23	25	1	0	3	37	0	120	70	113	157	1	1	1	14	9	6
035-039	45	66	48	2	5	7	44	76	146	77	171	200	2	5	2	26	29	10
040-044	50	101	120	8	8	10	160	79	83	72	175	184	1	1	4	14	6	22
045-049	71	118	146	6	12	9	85	102	62	76	118	130	1	2	5	13	17	38
050-054	58	115	133	7	11	12	121	96	90	36	82	84	1	3	1	28	37	12
055-059	56	108	92	3	8	5	54	74	54	15	60	40	0	0	1	0	0	25
060-064	35	78	78	4	10	10	114	128	128	13	26	9	1	3	0	77	115	0
065-069	21	47	30	4	6	1	190	128	33	8	8	4	0	0	0	0	0	0
070-104	24	46	19	2	5	2	83	109	105	3	7	2	0	0	0	0	0	0
UNKNOWN	296	12	12	34	0	1				412	32	13	15	1	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	60	63	59	182	140	111	426	592	701	21	26	23	49	44	33
005-029	8	8	5	1	0	0	125	0	0	26	58	53	1	2	1	38	34	19
030-034	18	20	14	2	3	1	111	150	71	37	72	98	2	4	4	54	56	41
035-039	26	44	53	4	6	4	154	136	75	49	101	132	3	4	3	61	40	23
040-044	37	57	84	6	12	10	162	211	119	59	117	166	3	6	2	51	51	12
045-049	37	76	104	9	10	13	243	132	125	36	94	114	3	3	7	83	32	61
050-054	35	78	104	9	13	10	257	167	96	27	59	62	1	3	2	37	51	32
055-059	33	61	85	3	7	2	91	115	24	15	37	34	0	1	2	0	27	59
060-064	17	53	42	2	6	10	118	113	238	3	18	16	0	1	0	0	56	0
065-069	12	26	25	3	3	7	250	115	280	3	10	10	0	0	1	0	0	100
070-104	10	19	12	3	3	2	300	158	167	3	6	6	1	2	1	333	333	167
UNKNOWN	97	8	3	18	0	0				168	20	10	7	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.005	-0.002	0.034
SE(B)	0.015	0.015	0.017
A	-3.135	-2.889	-4.962
WOMEN			
B	*******	-0.101	-0.074
SE(B)	******	0.043	0.050
A	*******	-1.442	-2.450
AGE 45-54 AT EXAM			
MEN			
B	0.017	0.017	-0.009
SE(B)	0.013	0.011	0.014
A	-3.106	-3.172	-1.922
WOMEN			
B	0.037	0.032	0.034
SE(B)	0.033	0.024	0.028
A	-5.692	-5.334	-5.502
AGE 55-64 AT EXAM			
MEN			
B	0.014	-0.002	0.027
SE(B)	0.014	0.012	0.014
A	-2.183	-1.717	-3.449
WOMEN			
B	0.014	0.012	0.033
SE(B)	0.027	0.019	0.021
A	-3.430	-3.541	-4.813

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 3-7-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: URIC ACID (MG/LITER)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	17	19		12138	52	43		8258	77	93		2328	27	116	
005-029	188	0	0	13.6	170	0	0	30.7	74	1	135	83.7	36	0	0	42.0
030-034	348	0	0	14.7	356	3	84	33.6	312	1	32	86.1	66	0	0	53.6
035-039	628	1	16	15.6	976	4	41	35.9	732	7	96	87.4	188	3	160	64.0
040-044	1384	3	22	16.4	1760	5	28	38.2	1328	17	128	88.9	438	3	68	80.1
045-049	1644	3	18	17.4	2340	10	43	40.8	1692	17	100	90.5	460	3	65	97.7
050-054	1568	4	26	18.4	2228	10	45	43.5	1396	7	50	92.0	388	2	52	118.0
055-059	1210	1	8	19.5	1632	5	31	46.5	1194	7	59	93.5	364	8	220	143.6
060-064	700	1	14	20.6	984	6	61	49.6	708	7	99	95.1	212	4	189	174.8
065-069	390	2	51	21.8	516	2	39	53.1	312	6	192	96.8	92	4	435	211.3
070-104	244	0	0	24.3	438	4	91	60.4	246	3	122	99.9	58	0	0	316.3
UNKNOWN	686	2			738	3			264	4			26	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	12	8		11376	20	18		3532	12	34	
005-029	1826	1	5	******	2144	2	9	11.4	986	0	0	6.7	256	3	117	48.4
030-034	2292	0	0	******	2666	1	4	7.9	1566	1	6	9.6	440	2	45	42.3
035-039	2476	0	0	******	3348	5	15	6.1	2220	2	9	12.5	706	1	14	38.0
040-044	2006	1	5	******	3120	1	3	4.6	2560	6	23	16.5	756	0	0	34.1
045-049	886	0	0	******	1684	0	0	3.5	1744	6	34	21.9	650	3	46	30.5
050-054	382	0	0	******	956	0	0	2.7	976	3	31	28.7	342	2	58	27.3
055-059	224	0	0	******	416	0	0	2.0	462	0	0	37.6	192	0	0	24.9
060-064	66	0	0	******	198	0	0	1.6	220	1	45	48.8	62	1	161	22.2
065-069	32	0	0	******	98	0	0	1.2	132	0	0	64.6	36	0	0	20.0
070-104	26	0	0	******	28	0	0	0.9	58	1	172	99.9	24	0	0	15.8
UNKNOWN	1030	0			1022	3			452	0			68	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.012	*******	0.013	-0.055	0.003	0.056	0.042	-0.022
SE(B)	0.024	******	0.014	0.041	0.012	0.021	0.019	0.033
A	-6.200	*******	-5.434	-4.669	-4.159	-8.070	-5.888	-4.045

TABLE 3-8-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	54	44	35	63	51	40	1091	1124	1081	9	9	7	8	8	6	
052-084	98	84	73	3	1	0	31	12	0	196	196	174	2	1	1	10	5	6	MEN
085-089	77	76	82	5	3	3	65	39	37	128	149	159	2	0	2	16	0	13	B 0.016 0.007 0.015
090-094	104	113	92	3	8	5	29	71	54	153	179	166	0	4	2	0	22	12	SE(B) 0.010 0.011 0.012
095-099	120	133	140	6	7	4	50	53	29	153	155	142	1	1	0	7	6	0	A -4.406 -3.656 -4.785
100-104	107	102	117	6	2	3	56	20	26	120	110	130	3	0	0	25	0	0	
105-109	112	105	115	12	6	4	107	57	35	96	92	84	1	1	0	10	11	0	WOMEN
110-114	88	99	106	9	8	8	102	81	75	64	60	60	0	2	0	0	33	0	B -0.022 -0.007 -0.017
115-119	57	62	57	4	6	3	70	97	53	45	57	44	0	0	2	0	0	45	SE(B) 0.023 0.021 0.026
120-124	40	41	43	3	1	2	75	24	47	29	38	37	0	0	0	0	0	0	A -2.674 -4.102 -3.427
125-226	50	49	53	2	1	2	40	20	38	96	75	75	0	0	0	0	0	0	
UNKNOWN	5	5	5	1	1	1				11	13	10	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	72	66	61	102	90	86	870	891	925	22	17	15	25	19	16	
052-084	55	63	63	5	6	5	91	95	79	68	81	92	0	0	1	0	0	11	MEN
085-089	48	49	52	5	3	3	104	61	58	56	73	86	0	1	0	0	14	0	B 0.001 0.020 0.009
090-094	99	81	80	10	4	9	101	49	113	83	89	109	0	1	1	0	11	9	SE(B) 0.010 0.009 0.010
095-099	97	118	89	11	10	8	113	85	90	123	119	141	1	4	1	8	34	7	A -2.288 -4.388 -3.304
100-104	107	107	116	10	9	7	93	84	60	127	126	120	4	2	2	31	16	17	
105-109	117	103	103	16	7	8	137	68	78	100	101	99	5	1	6	50	10	61	WOMEN
110-114	67	88	81	3	9	7	45	102	86	78	81	80	1	3	1	13	37	13	B 0.026 0.012 0.006
115-119	50	54	59	5	10	6	100	185	102	61	67	58	2	1	2	33	15	34	SE(B) 0.009 0.012 0.013
120-124	21	28	26	3	1	3	143	36	115	52	45	34	3	0	0	58	0	0	A -6.507 -5.171 -4.747
125-226	39	35	39	4	7	5	103	200	128	119	106	103	6	4	1	50	38	10	
UNKNOWN	5	4	3	0	0	0				3	3	3	0	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	60	63	59	182	140	111	426	592	701	21	26	23	49	44	33	
052-084	43	45	43	5	4	3	116	89	70	29	40	50	2	3	2	69	75	40	MEN
085-089	23	31	42	2	3	5	87	97	119	25	37	45	2	1	1	80	27	22	B 0.015 0.007 0.008
090-094	31	44	57	4	5	3	129	114	53	38	56	62	3	4	2	79	71	32	SE(B) 0.010 0.010 0.011
095-099	53	78	81	13	10	10	245	128	123	45	73	98	2	2	5	44	27	51	A -3.021 -2.560 -2.875
100-104	48	63	82	6	13	11	125	206	134	51	83	100	3	3	4	59	36	40	
105-109	33	57	74	7	8	9	212	140	122	39	55	82	1	3	2	26	55	24	WOMEN
110-114	39	55	75	9	8	7	231	145	93	46	62	55	1	1	0	22	16	0	B -0.002 0.006 0.002
115-119	24	38	34	7	5	6	292	132	176	43	42	60	1	1	1	23	24	17	SE(B) 0.011 0.010 0.011
120-124	17	19	19	1	4	2	59	211	105	29	49	40	0	0	0	0	0	0	A -2.745 -3.728 -3.584
125-226	15	17	23	4	1	2	267	59	87	79	94	107	6	8	6	76	85	56	
UNKNOWN	4	3	1	2	2	1				2	1	2	0	0	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 3-8-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	17	19		12138	52	43		8258	77	93		2328	27	116	
052-084	768	0	0	24.0	970	3	31	28.8	678	8	118	77.1	254	2	79	90.0
085-089	734	2	27	22.1	920	2	22	32.4	552	4	72	82.0	190	1	53	98.9
090-094	980	3	31	21.1	1286	4	31	35.0	856	6	70	85.2	246	4	163	104.3
095-099	1418	1	7	20.0	1688	7	41	37.7	1312	8	61	88.4	336	1	30	109.9
100-104	1194	5	42	18.9	1836	7	38	40.7	1400	12	86	91.7	332	8	241	115.5
105-109	1176	3	26	18.0	1766	9	51	43.9	1148	11	96	95.1	296	2	68	121.1
110-114	1032	2	19	17.1	1396	4	29	47.3	928	13	140	98.7	306	3	98	127.9
115-119	638	1	16	16.3	894	7	78	51.0	594	6	101	102.4	160	3	188	133.8
120-124	432	0	0	15.4	560	5	89	55.1	426	4	94	106.4	84	2	238	141.8
125-226	566	0	0	13.8	758	3	40	64.8	332	4	120	116.0	122	1	82	157.3
UNKNOWN	52	0			64	1			32	1			2	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	12	8		11376	20	18		3532	12	34	
052-084	1924	0	0	******	1692	0	0	5.5	916	2	22	15.9	394	3	76	45.7
085-089	1532	1	7	******	1666	2	12	6.1	870	1	11	16.4	226	1	44	41.3
090-094	1732	0	0	******	1934	1	5	6.5	1138	2	18	16.7	294	0	0	39.0
095-099	1582	0	0	******	2302	1	4	6.9	1588	1	6	17.0	450	2	44	36.9
100-104	1222	0	0	******	1964	0	0	7.4	1466	4	27	17.3	454	2	44	34.9
105-109	842	0	0	******	1600	2	13	7.9	1290	1	8	17.6	424	1	24	33.0
110-114	636	0	0	******	1214	1	8	8.4	1084	3	28	18.0	290	1	34	31.2
115-119	500	0	0	******	892	1	11	8.9	804	3	37	18.3	252	0	0	29.5
120-124	324	0	0	******	630	2	32	9.5	596	0	0	18.6	214	0	0	28.0
125-226	840	1	12	******	1690	2	12	12.4	1592	3	19	20.0	524	2	38	23.3
UNKNOWN	112	0			96	0			32	0			10	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	-0.010	*******	0.015	0.013	0.008	0.004	0.011	-0.011
SE(B)	0.018	******	0.010	0.013	0.009	0.011	0.014	0.017
A	-4.508	*******	-6.371	-7.819	-4.762	-6.041	-4.822	-3.797

TABLE 3-9-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	54	44	35	63	51	40	1091	1124	1081	9	9	7	8	8	6	
05-14	1	0	1	0	0	0	0	****	0	9	11	7	0	0	0	0	0	0	MEN
15-19	1	5	3	0	0	0	0	0	0	60	46	28	1	0	1	17	0	36	B -0.010 -0.011 -0.032
20-24	12	13	10	1	2	0	83	154	0	234	190	189	3	4	0	13	21	0	SE(B) 0.022 0.024 0.026
25-29	43	45	30	1	4	0	23	89	0	414	476	411	4	3	5	10	6	12	A -2.307 -2.489 -1.945
30-34	155	124	133	11	3	6	71	24	45	284	309	332	1	1	1	4	3	3	
35-39	247	256	244	16	12	15	65	47	61	70	81	96	0	1	0	0	12	0	WOMEN
40-44	235	260	255	16	18	12	68	69	47	10	7	15	0	0	0	0	0	0	B -0.095 -0.094 -0.083
45-49	116	119	141	9	5	1	78	42	7	2	2	1	0	0	0	0	0	0	SE(B) 0.062 0.064 0.073
50-54	33	38	56	0	0	1	0	0	18	1	0	0	0	0	0	0	****	****	A -2.321 -2.330 -2.775
55-61	5	7	9	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****	
UNKNOWN	10	2	1	0	0	0				7	2	2	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	72	66	61	102	90	86	870	891	925	22	17	15	25	19	16	
05-14	1	1	0	0	0	0	0	0	****	19	29	22	1	1	0	53	34	0	MEN
15-19	3	5	4	0	1	0	0	200	0	107	116	88	3	0	0	28	0	.0	B -0.009 -0.001 -0.003
20-24	24	15	17	6	0	0	250	0	0	326	300	306	7	9	7	21	30	23	SE(B) 0.019 0.020 0.021
25-29	73	71	81	7	6	9	96	85	111	274	308	333	8	4	5	29	13	15	A -1.855 -2.255 -2.254
30-34	170	199	191	12	17	19	71	85	99	122	121	152	3	2	3	25	17	20	
35-39	220	229	208	29	24	16	132	105	77	16	15	22	0	1	0	0	67	0	WOMEN
40-44	142	154	148	10	15	11	70	97	74	2	1	2	0	0	0	0	0	0	B -0.012 0.026 0.019
45-49	52	43	48	4	0	4	77	0	83	0	0	0	0	0	0	****	****	****	SE(B) 0.043 0.048 0.052
50-54	15	11	11	2	3	2	133	273	182	0	0	0	0	0	0	****	****	****	A -3.362 -4.568 -4.594
55-61	2	2	2	1	0	0	500	0	0	0	0	0	0	0	0	****	****	****	
UNKNOWN	3	0	1	1	0	0				4	1	0	0	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	60	63	59	182	140	111	426	592	701	21	26	23	49	44	33	
05-14	0	3	4	0	1	0	****	333	0	26	44	52	1	3	1	38	68	19	MEN
15-19	3	12	7	0	2	0	0	167	0	82	140	148	4	9	9	49	64	61	B -0.003 -0.015 0.003
20-24	18	34	37	2	7	3	111	206	81	203	247	295	14	10	8	69	40	27	SE(B) 0.025 0.021 0.021
25-29	66	80	99	14	7	12	212	88	121	82	137	160	2	4	5	24	29	31	A -1.424 -1.343 -2.173
30-34	103	126	154	19	20	17	184	159	110	24	21	40	0	0	0	0	0	0	
35-39	91	133	155	16	19	20	176	143	129	4	2	5	0	0	0	0	0	0	WOMEN
40-44	34	45	57	6	4	5	176	89	88	0	0	0	0	0	0	****	****	****	B -0.049 -0.072 -0.036
45-49	8	13	12	1	2	1	125	154	83	0	0	0	0	0	0	****	****	****	SE(B) 0.046 0.040 0.041
50-54	1	1	4	0	0	1	0	0	250	0	0	0	0	0	0	****	****	****	A -1.905 -1.603 -2.615
55-61	0	0	0	0	0	0	****	****	****	0	0	0	0	0	0	****	****	****	
UNKNOWN	6	3	2	2	1	0				5	1	1	0	0	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 3-9-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	17	19		12138	52	43		8258	77	93		2328	27	116	
05-14	6	0	0	24.9	10	0	0	118.5	26	1	385	114.2	14	0	0	148.6
15-19	28	0	0	23.7	72	0	0	89.9	112	1	89	108.3	76	1	132	138.1
20-24	98	1	102	22.6	298	2	67	73.3	462	2	43	103.8	256	2	78	127.8
25-29	340	1	29	21.5	1080	8	74	60.9	1450	18	124	99.2	570	7	123	118.6
30-34	1340	1	7	20.5	2742	13	47	50.4	2336	20	86	94.9	776	13	168	109.8
35-39	2438	4	16	19.5	3712	17	46	41.4	2354	23	98	90.8	456	3	66	101.6
40-44	2590	7	27	18.5	2760	9	33	34.2	1108	8	72	87.0	134	0	0	94.5
45-49	1384	3	22	17.6	1094	2	18	28.1	298	1	34	83.1	28	0	0	87.2
50-54	610	0	0	16.8	302	0	0	23.0	74	2	270	79.2	4	0	0	82.0
55-61	130	0	0	15.9	60	1	167	18.9	10	1	1000	76.4	2	0	0	75.7
UNKNOWN	26	0			8	0			28	0			12	1		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	12	8		11376	20	18		3532	12	34	
05-14	54	0	0	******	208	0	0	15.5	504	1	20	33.1	390	1	26	51.0
15-19	358	0	0	******	1190	1	8	11.6	2090	5	24	23.1	1026	3	29	38.4
20-24	1834	1	5	******	4510	7	16	9.0	4830	10	21	17.7	1456	8	55	30.9
25-29	4400	0	0	******	5984	2	3	7.1	3044	4	13	13.4	558	0	0	24.5
30-34	3322	1	3	******	3136	2	6	5.6	790	0	0	10.2	98	0	0	19.4
35-39	1082	0	0	******	572	0	0	4.3	100	0	0	7.7	4	0	0	16.0
40-44	144	0	0	******	56	0	0	3.3	2	0	0	5.7	0	0	*****	******
45-49	16	0	0	******	8	0	0	2.5	2	0	0	4.0	0	0	*****	******
50-54	2	0	0	******	0	0	*****	******	0	0	*****	******	0	0	*****	******
55-61	2	0	0	******	0	0	*****	******	0	0	*****	******	0	0	*****	******
UNKNOWN	32	0			16	0			14	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	-0.010	*******	-0.041	-0.053	-0.009	-0.059	-0.016	-0.050
SE(B)	0.035	******	0.021	0.057	0.018	0.045	0.032	0.059
A	-5.163	*******	-3.292	-5.140	-3.643	-4.347	-3.279	-4.004

TABLE 3-10-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	54	44	35	63	51	40	1091	1124	1081	9	9	7	8	8	6	
NONE	0	119	116	0	8	5	****	67	43	0	329	308	0	1	1	****	3	3	MEN
000-009	0	252	270	0	13	11	****	52	41	0	448	442	0	6	4	****	13	9	B******* -0.019 -0.014
010-019	0	128	126	0	10	8	****	78	63	0	101	98	0	0	0	****	0	0	SE(B)****** 0.009 0.009
020-029	0	75	74	0	4	4	****	53	54	0	60	55	0	1	1	****	17	18	A******* -2.635 -2.934
030-039	0	45	53	0	2	1	****	44	19	0	35	32	0	0	0	****	0	0	
040-049	0	45	44	0	0	1	****	0	23	0	15	13	0	0	0	****	0	0	WOMEN
050-059	0	26	26	0	0	0	****	0	0	0	8	7	0	0	0	****	0	0	B******* 0.008 0.011
060-069	0	23	21	0	1	2	****	43	95	0	21	22	0	0	0	****	0	0	SE(B)****** 0.012 0.011
070-079	0	17	16	0	1	0	****	59	0	0	5	5	0	1	1	****	200	200	A******* -4.814 -5.071
080-457	0	57	56	0	0	0	****	0	0	0	10	9	0	0	0	****	0	0	
UNKNOWN	858	82	81	54	5	3				1091	92	90	9	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	72	66	61	102	90	86	870	891	925	22	17	15	25	19	16	
NONE	0	133	121	0	9	10	****	68	83	0	369	361	0	9	6	****	24	17	MEN
000-009	0	201	197	0	22	20	****	109	102	0	309	337	0	5	6	****	16	18	B******* -0.001 -0.004
010-019	0	77	76	0	9	8	****	117	105	0	53	54	0	1	1	****	19	19	SE(B)****** 0.004 0.005
020-029	0	55	60	0	6	6	****	109	100	0	34	38	0	0	0	****	0	0	A******* -2.239 -2.269
030-039	0	62	59	0	3	2	****	48	34	0	30	34	0	0	0	****	0	0	
040-049	0	34	33	0	4	1	****	118	30	0	16	17	0	0	0	****	0	0	WOMEN
050-059	0	27	23	0	2	2	****	74	87	0	4	3	0	0	0	****	0	0	B******* -0.006 -0.003
060-069	0	23	30	0	3	3	****	130	100	0	7	10	0	1	1	****	143	100	SE(B)****** 0.020 0.020
070-079	0	6	7	0	1	1	****	167	143	0	1	1	0	0	0	****	0	0	A******* -3.892 -4.086
080-457	0	47	40	0	4	3	****	85	75	0	7	7	0	0	0	****	0	0	
UNKNOWN	705	65	65	72	3	5				870	61	63	22	1	1				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	60	63	59	182	140	111	426	592	701	21	26	23	49	44	33	
NONE	0	99	115	0	18	12	****	182	104	0	294	342	0	12	9	****	41	26	MEN
000-009	0	135	154	0	19	19	****	141	123	0	178	213	0	4	5	****	22	23	B******* -0.007 -0.003
010-019	0	36	51	0	5	8	****	139	157	0	19	32	0	0	0	****	0	0	SE(B)****** 0.005 0.004
020-029	0	21	27	0	3	3	****	143	111	0	20	25	0	1	1	****	50	40	A******* -1.649 -1.982
030-039	0	33	39	0	4	3	****	121	77	0	19	20	0	2	2	****	105	100	
040-049	0	19	24	0	2	2	****	105	83	0	5	7	0	0	0	****	0	0	WOMEN
050-059	0	10	13	0	1	1	****	100	77	0	2	4	0	0	0	****	0	0	B******* 0.019 0.022
060-069	0	7	7	0	2	2	****	286	286	0	0	0	0	0	0	****	****	****	SE(B)****** 0.008 0.008
070-079	0	11	11	0	0	0	****	0	0	0	2	1	0	0	0	****	0	0	A******* -3.419 -3.740
080-457	0	34	43	0	4	5	****	118	116	0	5	5	0	1	1	****	200	200	
UNKNOWN	330	45	47	60	5	4				426	48	52	21	6	5				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 3-10-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	17	19		12138	52	43		8258	77	93		2328	27	116	
NONE	996	2	20	22.3	1754	5	29	50.5	1666	20	120	94.5	504	8	159	138.2
000-009	2250	5	22	22.3	2924	16	55	49.5	2064	15	73	94.2	638	7	110	136.2
010-019	1030	3	29	22.2	1252	7	56	46.3	740	8	108	93.2	210	3	143	129.0
020-029	590	0	0	22.2	812	4	49	43.4	476	1	21	92.2	164	1	61	121.5
030-039	434	2	46	22.1	866	3	35	41.0	572	9	157	91.5	180	4	222	116.6
040-049	366	0	0	22.0	588	1	17	38.1	414	4	97	90.4	104	1	96	109.4
050-059	156	0	0	22.0	256	1	39	35.9	170	0	0	89.5	68	0	0	103.9
060-069	262	1	38	21.9	486	6	123	34.0	322	2	62	88.7	88	1	114	99.3
070-079	140	1	71	21.8	242	0	0	31.4	144	1	69	87.7	44	0	0	92.8
080-457	544	1	18	21.5	954	1	10	23.7	588	6	102	83.8	196	2	102	72.7
UNKNOWN	2222	2			2004	8			1102	11			132	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	12	8		11376	20	18		3532	12	34	
NONE	2518	0	0	******	4550	5	11	10.6	4830	9	19	14.3	1828	5	27	20.8
000-009	3744	0	0	******	5350	4	7	7.4	3386	5	15	14.7	966	3	31	22.6
010-019	850	0	0	******	1040	0	0	1.6	462	0	0	16.7	152	0	0	31.5
020-029	456	0	0	******	628	0	0	0.4	380	0	0	18.5	154	0	0	42.4
030-039	384	0	0	******	728	0	0	0.1	482	0	0	20.6	136	0	0	56.5
040-049	136	0	0	******	268	0	0	0.0	168	0	0	23.7	54	0	0	79.8
050-059	66	0	0	******	88	0	0	0.0	62	0	0	26.3	14	0	0	112.1
060-069	204	1	49	******	324	0	0	0.0	112	0	0	29.3	28	1	357	147.6
070-079	46	0	0	******	94	0	0	0.0	34	0	0	34.5	16	0	0	227.5
080-457	94	1	106	******	186	0	0	0.0	126	2	159	51.3	10	1	1000	758.2
UNKNOWN	2748	0			2424	3			1334	4			174	2		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	-0.000	*******	-0.006	-0.149	-0.001	0.012	-0.006	0.033
SE(B)	0.007	******	0.005	0.126	0.004	0.009	0.006	0.010
A	-5.407	*******	-4.584	-6.153	-3.949	-5.856	-3.561	-5.480

TABLE 3-11-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	54	44	35	63	51	40	1091	1124	1081	9	9	7	8	8	6
NONE	242	242	255	4	2	1	17	8	4	531	522	494	3	2	2	6	4	4
UNDER 20	147	144	139	9	7	3	61	49	22	356	376	371	2	2	2	6	5	5
20	252	253	258	23	19	17	91	75	66	152	173	163	4	4	2	26	23	12
OVER 20	213	224	226	17	15	13	80	67	58	44	47	47	0	1	1	0	21	21
UNKNOWN	4	6	5	1	1	1				8	6	6	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	72	66	61	102	90	86	870	891	925	22	17	15	25	19	16
NONE	271	266	258	22	14	11	81	53	43	593	576	560	14	10	8	24	17	14
UNDER 20	111	114	112	11	10	10	99	88	89	178	205	234	4	3	3	22	15	13
20	169	185	176	22	27	27	130	146	153	70	78	97	3	3	4	43	38	41
OVER 20	147	157	158	17	15	13	116	96	82	23	29	31	1	1	0	43	34	0
UNKNOWN	7	8	7	0	0	0				6	3	3	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	60	63	59	182	140	111	426	592	701	21	26	23	49	44	33
NONE	160	214	231	31	33	30	194	154	130	338	454	518	16	19	16	47	42	31
UNDER 20	65	84	106	13	12	13	200	143	123	62	94	125	3	5	3	48	53	24
20	68	96	122	11	10	7	162	104	57	16	29	38	1	1	2	63	34	53
OVER 20	34	54	70	4	8	9	118	148	129	8	11	16	1	1	2	125	91	125
UNKNOWN	3	2	2	1	0	0				2	4	4	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.424	0.488	0.641
SE(B)	0.135	0.154	0.184
A	-3.457	-3.831	-4.421
WOMEN			
B	0.454	0.753	0.582
SE(B)	0.343	0.335	0.383
A	-5.196	-5.633	-5.621
AGE 45-54 AT EXAM			
MEN			
B	0.156	0.261	0.279
SE(B)	0.105	0.111	0.115
A	-2.375	-2.680	-2.772
WOMEN			
B	0.226	0.282	0.231
SE(B)	0.252	0.268	0.287
A	-3.761	-4.105	-4.251
AGE 55-64 AT EXAM			
MEN			
B	-0.149	-0.090	-0.140
SE(B)	0.142	0.129	0.131
A	-1.383	-1.725	-1.936
WOMEN			
B	0.235	0.155	0.357
SE(B)	0.306	0.278	0.247
A	-3.030	-3.127	-3.538

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 3-11-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	17	19		12138	52	43		8258	77	93		2328	27	116	
NONE	2800	2	7	14.5	4508	8	18	24.4	3970	29	73	76.4	1380	18	130	130.4
UNDER 20	1402	4	29	17.2	1738	6	35	34.4	1368	14	102	90.5	430	4	93	109.0
20	2444	8	33	20.4	2900	23	79	48.5	1614	18	112	107.1	288	4	139	91.1
OVER 20	2292	3	13	24.2	2928	14	48	68.2	1264	15	119	126.7	222	1	45	76.0
UNKNOWN	52	0			64	1			42	1			8	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	12	8		11376	20	18		3532	12	34	
NONE	5176	0	0	0.1	8896	5	6	4.5	8122	11	14	15.0	2824	11	39	39.4
UNDER 20	3596	0	0	0.5	3718	2	5	7.9	1986	6	30	20.4	492	1	20	15.8
20	1776	1	6	3.1	2164	2	9	13.8	838	2	24	27.6	142	0	0	6.3
OVER 20	640	1	16	19.5	840	3	36	24.1	386	1	26	37.4	56	0	0	2.5
UNKNOWN	58	0			62	0			44	0			18	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.171	1.858	0.346	0.558	0.172	0.305	-0.184	-0.917
SE(B)	0.210	0.966	0.121	0.264	0.098	0.237	0.215	0.921
A	-5.839	-11.117	-5.318	-7.003	-4.166	-5.805	-3.620	-4.836

TABLE 3-12-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: ALBUMIN IN URINE

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	54	44	35	63	51	40	1091	1124	1081	9	9	7	8	8	6
NO	816	857	865	51	43	34	63	50	39	988	1079	1031	8	8	7	8	7	7
POSSIBLE	2	0	3	0	0	0	0	****	0	7	1	5	1	0	0	143	0	0
DEFINITE	21	6	11	2	1	1	95	167	91	72	40	42	0	1	0	0	25	0
UNKNOWN	19	6	4	1	0	0				24	4	3	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	72	66	61	102	90	86	870	891	925	22	17	15	25	19	16
NO	671	718	702	67	64	59	100	89	84	794	854	880	22	15	15	28	18	17
POSSIBLE	1	0	0	0	0	0	0	****	****	7	4	6	0	0	0	0	0	0
DEFINITE	24	10	9	4	2	2	167	200	222	59	31	38	0	2	0	0	65	0
UNKNOWN	9	2	0	1	0	0				10	2	1	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	60	63	59	182	140	111	426	592	701	21	26	23	49	44	33
NO	308	433	509	56	60	54	182	139	106	396	570	672	18	22	20	45	39	30
POSSIBLE	1	1	5	0	0	1	0	0	200	0	1	2	0	0	0	****	0	0
DEFINITE	14	13	15	2	2	3	143	154	200	22	17	24	2	3	3	91	176	125
UNKNOWN	7	3	2	2	1	1				8	4	3	1	1	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.208	0.666	0.399
SE(B)	0.382	0.553	0.541
A	-2.710	-2.941	-3.199
WOMEN			
B	-0.134	0.614	*******
SE(B)	0.740	0.538	******
A	-4.750	-4.898	*******
AGE 45-54 AT EXAM			
MEN			
B	0.286	0.469	0.568
SE(B)	0.282	0.401	0.407
A	-2.200	-2.324	-2.389
WOMEN			
B	*******	0.659	*******
SE(B)	******	0.391	******
A	*******	-4.029	*******
AGE 55-64 AT EXAM			
MEN			
B	-0.166	0.040	0.397
SE(B)	0.392	0.393	0.317
A	-1.506	-1.829	-2.129
WOMEN			
B	0.371	0.830	0.759
SE(B)	0.390	0.337	0.330
A	-3.045	-3.217	-3.487

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 3-12-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: ALBUMIN IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	17	19		12138	52	43		8258	77	93		2328	27	116	
NO	8754	17	19	******	11852	49	41	41.2	7830	72	92	91.5	2186	24	110	109.2
POSSIBLE	20	0	0	******	42	0	0	75.3	74	0	0	101.8	16	0	0	162.0
DEFINITE	142	0	0	******	208	3	144	136.6	320	4	125	113.2	120	3	250	239.2
UNKNOWN	74	0			36	0			34	1			6	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	12	8		11376	20	18		3532	12	34	
NO	10630	2	2	******	14958	12	8	******	10886	19	17	17.3	3364	8	24	24.9
POSSIBLE	90	0	0	******	134	0	0	******	112	0	0	21.3	32	1	313	84.0
DEFINITE	450	0	0	******	550	0	0	******	338	1	30	26.1	122	3	246	275.9
UNKNOWN	76	0			38	0			40	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.609	*******	0.109	0.205	0.406	1.229
SE(B)	******	******	0.306	******	0.266	0.531	0.317	0.329
A	*******	*******	-4.790	*******	-3.983	-5.660	-3.802	-5.299

TABLE 3-13-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: SUGAR IN URINE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	54	44	35	63	51	40	1091	1124	1081	9	9	7	8	8	6	
																			MEN
NO	818	859	873	52	44	35	64	51	40	1055	1116	1073	9	9	7	9	8	7	B 0.062**********
POSSIBLE	13	2	0	0	0	0	0	0	****	7	0	0	0	0	0	0	****	****	SE(B) 0.593 ****** ******
DEFINITE	8	2	6	1	0	0	125	0	0	5	4	5	0	0	0	0	0	0	A -2.699**********
UNKNOWN	19	6	4	1	0	0				24	4	3	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	72	66	61	102	90	86	870	891	925	22	17	15	25	19	16	
																			MEN
NO	665	704	689	67	61	58	101	87	84	840	879	913	22	17	15	26	19	16	B 0.260 0.612 0.364
POSSIBLE	20	11	10	2	2	1	100	182	100	11	1	1	0	0	0	0	0	0	SE(B) 0.362 0.311 0.374
DEFINITE	11	13	12	2	3	2	182	231	167	9	9	10	0	0	0	0	0	0	A -2.193 -2.352 -2.388
UNKNOWN	9	2	0	1	0	0				10	2	1	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	60	63	59	182	140	111	426	592	701	21	26	23	49	44	33	
																			MEN
NO	309	437	512	53	59	55	172	135	107	404	572	684	17	23	21	42	40	31	B 0.666 0.556 0.392
POSSIBLE	9	1	4	3	0	0	333	0	0	5	4	1	1	0	0	200	0	0	SE(B) 0.396 0.360 0.341
DEFINITE	5	9	13	2	3	3	400	333	231	9	12	13	2	2	2	222	167	154	A -1.570 -1.859 -2.123
UNKNOWN	7	3	2	2	1	1				8	4	3	1	1	0				WOMEN
																			B 1.000 0.736 0.864
																			SE(B) 0.395 0.407 0.401
																			A -3.111 -3.180 -3.454

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 3-13-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: SUGAR IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	17	19		12138	52	43		8258	77	93		2328	27	116	
NO	8804	17	19	******	11802	48	41	40.7	7946	70	88	88.2	2214	23	104	103.2
POSSIBLE	48	0	0	******	114	1	88	81.4	54	1	185	142.4	14	0	0	208.0
DEFINITE	72	0	0	******	188	3	160	161.5	224	5	223	228.4	94	4	426	410.0
UNKNOWN	66	0			34	0			34	1			6	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	12	8		11376	20	18		3532	12	34	
NO	11088	1	1	0.9	15466	12	8	******	11132	18	16	16.5	3456	11	32	31.7
POSSIBLE	20	0	0	12.1	46	0	0	******	50	1	200	38.4	10	0	0	77.1
DEFINITE	62	1	161	159.3	132	0	0	******	158	1	63	88.9	52	1	192	184.9
UNKNOWN	76	0			36	0			36	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	2.609	0.701	*******	0.490	0.848	0.722	0.897
SE(B)	******	0.717	0.291	******	0.231	0.436	0.284	0.537
A	*******	-8.632	-4.803	*******	-4.019	-5.709	-3.859	-5.054

TABLE 3-14-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	54	44	35	63	51	40	1091	1124	1081	9	9	7	8	8	6
NO	765	770	806	44	39	31	58	51	38	951	1017	1011	8	7	6	8	7	6
POSSIBLE	26	34	41	5	1	3	192	29	73	55	39	36	0	1	0	0	26	0
DEFINITE	63	64	36	5	4	1	79	63	28	81	67	33	1	1	1	12	15	30
UNKNOWN	4	1	0	0	0	0				4	1	1	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	72	66	61	102	90	86	870	891	925	22	17	15	25	19	16
NO	561	634	629	56	55	56	100	87	89	620	673	747	15	10	11	24	15	15
POSSIBLE	22	39	41	3	7	3	136	179	73	59	76	100	1	2	1	17	26	10
DEFINITE	118	57	41	12	4	2	102	70	49	185	142	78	6	5	3	32	35	38
UNKNOWN	4	0	0	1	0	0				6	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	60	63	59	182	140	111	426	592	701	21	26	23	49	44	33
NO	241	349	436	43	45	41	178	129	94	250	356	455	11	11	13	44	31	29
POSSIBLE	15	41	45	1	7	9	67	171	200	34	76	107	1	4	2	29	53	19
DEFINITE	73	60	50	16	11	9	219	183	180	138	160	139	9	11	8	65	69	58
UNKNOWN	1	0	0	0	0	0				4	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.298	0.060	0.076
SE(B)	0.216	0.272	0.372
A	-2.761	-2.942	-3.198
WOMEN			
B	0.070	0.494	0.724
SE(B)	0.573	0.473	0.583
A	-4.800	-4.933	-5.157
AGE 45-54 AT EXAM			
MEN			
B	0.024	0.058	-0.296
SE(B)	0.164	0.220	0.319
A	-2.192	-2.321	-2.323
WOMEN			
B	0.135	0.448	0.413
SE(B)	0.248	0.273	0.345
A	-3.718	-4.183	-4.255
AGE 55-64 AT EXAM			
MEN			
B	0.104	0.220	0.440
SE(B)	0.166	0.178	0.186
A	-1.553	-1.903	-2.231
WOMEN			
B	0.203	0.420	0.337
SE(B)	0.235	0.217	0.241
A	-3.115	-3.426	-3.605

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 3-14-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	17	19		12138	52	43		8258	77	93		2328	27	116	
NO	8168	14	17	17.8	10342	43	42	41.5	6422	53	83	82.3	1564	18	115	107.1
POSSIBLE	372	2	54	24.9	864	4	46	47.2	834	9	108	110.8	362	2	55	123.9
DEFINITE	440	1	23	34.9	924	5	54	53.7	1000	15	150	148.8	402	7	174	143.2
UNKNOWN	10	0			8	0			2	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	12	8		11376	20	18		3532	12	34	
NO	10340	1	1	0.9	12730	8	6	7.0	7236	7	10	10.6	1734	7	40	34.0
POSSIBLE	398	0	0	4.1	1362	3	22	9.1	1822	5	27	20.0	650	0	0	34.0
DEFINITE	492	1	20	18.7	1576	1	6	11.9	2310	8	35	37.6	1148	5	44	33.9
UNKNOWN	16	0			12	0			8	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.339	1.524	0.129	0.269	0.303	0.635	0.149	-0.001
SE(B)	0.405	0.738	0.224	0.387	0.145	0.248	0.239	0.326
A	-5.635	-8.635	-4.782	-6.573	-4.090	-6.153	-3.821	-4.984

TABLE 3-15-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	54	44	35	63	51	40	1091	1124	1081	9	9	7	8	8	6
NO	834	836	853	53	43	35	64	51	41	1081	1105	1062	9	9	7	8	8	7
POSSIBLE	15	25	25	1	1	0	67	40	0	7	15	15	0	0	0	0	0	0
DEFINITE	9	8	5	0	0	0	0	0	0	3	4	4	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	72	66	61	102	90	86	870	891	925	22	17	15	25	19	16
NO	672	685	664	69	62	57	103	91	86	839	848	889	22	16	14	26	19	16
POSSIBLE	18	24	27	3	3	3	167	125	111	15	30	25	0	1	1	0	33	40
DEFINITE	15	21	20	0	1	1	0	48	50	16	13	11	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	60	63	59	182	140	111	426	592	701	21	26	23	49	44	33
NO	300	405	477	48	54	51	160	133	107	410	537	629	20	24	20	49	45	32
POSSIBLE	13	24	27	4	4	3	308	167	111	6	32	41	0	1	1	0	31	24
DEFINITE	17	21	27	8	5	5	471	238	185	10	23	31	1	1	2	100	43	65
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	-0.525	-0.586	*******
SE(B)	0.858	0.908	******
A	-2.686	-2.911	*******
WOMEN			
B	**********	**********	**********
SE(B)	******	******	******
A	**********	**********	**********
AGE 45-54 AT EXAM			
MEN			
B	-0.348	-0.125	-0.101
SE(B)	0.486	0.376	0.380
A	-2.155	-2.298	-2.357
WOMEN			
B	*******	-0.048	0.193
SE(B)	******	0.855	0.840
A	*******	-3.937	-4.117
AGE 55-64 AT EXAM			
MEN			
B	0.780	0.339	0.282
SE(B)	0.242	0.248	0.247
A	-1.656	-1.875	-2.130
WOMEN			
B	0.277	-0.095	0.281
SE(B)	0.562	0.489	0.381
A	-2.980	-3.069	-3.434

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 3-15-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	17	19		12138	52	43		8258	77	93		2328	27	116	
NO	8680	16	18	18.7	11390	50	44	44.2	7398	63	85	83.0	1994	21	105	103.2
POSSIBLE	246	1	41	24.3	502	2	40	25.5	508	4	79	141.4	182	2	110	156.3
DEFINITE	64	0	0	31.5	246	0	0	14.7	352	10	284	238.9	152	4	263	235.4
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN				WOMEN				WOMEN				WOMEN			
	AGED 35-44 AT EXAM				AGED 45-54 AT EXAM				AGED 55-64 AT EXAM				AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	12	8		11376	20	18		3532	12	34	
NO	11052	1	1	0.8	15156	12	8	******	10370	18	17	17.2	3066	8	26	28.6
POSSIBLE	138	0	0	11.8	382	0	0	******	636	1	16	20.0	278	3	108	52.1
DEFINITE	56	1	179	164.0	142	0	0	******	370	1	27	23.3	188	1	53	94.5
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.263	2.659	-0.555	*******	0.545	0.152	0.426	0.604
SE(B)	0.865	0.744	0.616	******	0.177	0.485	0.278	0.396
A	-5.587	-8.702	-4.719	*******	-4.082	-5.667	-3.860	-5.157

TABLE 3-16-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	54	44	35	63	51	40	1091	1124	1081	9	9	7	8	8	6	
																			MEN
NO	840	851	859	53	42	34	63	49	40	1074	1109	1068	9	9	7	8	8	7	B -0.135 0.879 0.054
YES	18	18	24	1	2	1	56	111	42	17	15	13	0	0	0	0	0	0	SE(B) 1.039 0.767 1.036
																			A -2.698 -2.958 -3.189
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	72	66	61	102	90	86	870	891	925	22	17	15	25	19	16	
																			MEN
NO	684	709	687	65	62	58	95	87	84	849	858	894	21	17	15	25	20	17	B 1.561 0.898 0.438
YES	21	21	24	7	4	3	333	190	125	21	33	31	1	0	0	48	0	0	SE(B) 0.481 0.571 0.632
																			A -2.254 -2.345 -2.384
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 0.679**********
																			SE(B) 1.048 ****** ******
																			A -3.674**********
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	60	63	59	182	140	111	426	592	701	21	26	23	49	44	33	
																			MEN
NO	320	431	501	58	60	53	181	139	106	414	561	653	20	24	21	48	43	32	B 0.122 0.148 0.748
YES	10	19	30	2	3	6	200	158	200	12	31	48	1	2	2	83	65	42	SE(B) 0.804 0.644 0.479
																			A -1.508 -1.822 -2.135
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 0.583 0.434 0.269
																			SE(B) 1.069 0.760 0.756
																			A -2.981 -3.108 -3.404

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 3-16-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	17	19		12138	52	43		8258	77	93		2328	27	116	
NO	8768	13	15	14.8	11624	49	42	42.2	7770	72	93	92.7	2142	23	107	107.4
YES	222	4	180	180.2	514	3	58	58.4	488	5	102	102.5	186	4	215	215.1
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	12	8		11376	20	18		3532	12	34	
NO	11048	2	2	1.8	15160	11	7	7.3	10722	19	18	17.7	3260	11	34	33.7
YES	198	0	0	0.0	520	1	19	19.2	654	1	15	15.3	272	1	37	36.8
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	2.531	*******	0.329	0.977	0.102	-0.148	0.717	0.086
SE(B)	0.580	******	0.598	1.046	0.467	1.028	0.553	1.048
A	-5.818	*******	-4.767	-6.534	-3.970	-5.639	-3.819	-4.992

TABLE 3-17-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: DIABETES MELLITUS

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	54	44	35	63	51	40	1091	1124	1081	9	9	7	8	8	6	
																			MEN
NO	846	859	873	53	44	35	63	51	40	1083	1118	1075	9	8	6	8	7	6	B 0.308**********
YES	12	10	10	1	0	0	83	0	0	8	6	6	0	1	1	0	167	167	SE(B) 1.054 ****** ******
																			A -2.706**********
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B******* 3.323 3.573
																			SE(B)****** 1.151 1.169
																			A******* -4.933 -5.183
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	72	66	61	102	90	86	870	891	925	22	17	15	25	19	16	
																			MEN
NO	683	705	690	69	61	59	101	87	86	849	876	904	21	16	14	25	18	15	B 0.340 0.971 0.118
YES	22	25	21	3	5	2	136	200	95	21	15	21	1	1	1	48	67	48	SE(B) 0.634 0.518 0.756
																			A -2.186 -2.357 -2.370
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 0.679 1.345 1.156
																			SE(B) 1.048 1.065 1.060
																			A -3.674 -3.984 -4.152
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	60	63	59	182	140	111	426	592	701	21	26	23	49	44	33	
																			MEN
NO	316	432	510	56	60	56	177	139	110	414	567	673	19	23	21	46	41	31	B 0.619 0.215 0.301
YES	14	18	21	4	3	3	286	167	143	12	25	28	2	3	2	167	120	71	SE(B) 0.610 0.648 0.639
																			A -1.535 -1.825 -2.093
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 1.425 1.171 0.871
																			SE(B) 0.809 0.651 0.767
																			A -3.034 -3.163 -3.436

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 3-17-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: DIABETES MELLITUS

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	17	19		12138	52	43		8258	77	93		2328	27	116	
NO	8896	17	19	19.1	11788	49	42	41.6	7866	72	92	91.5	2172	23	106	105.9
YES	94	0	0	0.0	350	3	86	85.7	392	5	128	127.6	156	4	256	256.4
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	12	8		11376	20	18		3532	12	34	
NO	11168	1	1	0.9	15404	11	7	7.1	10974	18	16	16.4	3330	11	33	33.0
YES	78	1	128	128.2	276	1	36	36.2	402	2	50	49.8	202	1	50	49.5
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	4.990	0.733	1.630	0.339	1.116	0.916	0.408
SE(B)	******	1.424	0.600	1.048	0.468	0.749	0.555	1.050
A	*******	-8.627	-4.782	-6.550	-3.982	-5.716	-3.833	-5.013

TABLE 3-18-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: HYPERTENSION

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	54	44	35	63	51	40	1091	1124	1081	9	9	7	8	8	6
NO	379	499	593	20	22	18	53	44	30	707	872	870	5	5	5	7	6	6
BORDER	351	262	209	25	12	12	71	46	57	291	187	168	3	4	1	10	21	6
DEFINITE	128	108	81	9	10	5	70	93	62	93	65	43	1	0	1	11	0	23
UNKNOWN	0	0	0	0	C	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	72	66	61	102	90	86	870	891	925	22	17	15	25	19	16
NO	281	369	389	23	34	32	82	92	82	306	415	506	2	4	5	7	10	10
BORDER	262	236	213	32	19	22	122	81	103	357	298	256	11	6	3	31	20	12
DEFINITE	162	125	109	17	13	7	105	104	64	207	178	163	9	7	7	43	39	43
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	60	63	59	182	140	111	426	592	701	21	26	23	49	44	33
NO	119	201	273	11	22	22	92	109	81	101	160	252	2	1	3	20	6	12
BORDER	125	153	157	27	24	24	216	157	153	176	228	247	8	13	9	45	57	36
DEFINITE	86	96	101	22	17	13	256	177	129	149	204	202	11	12	11	74	59	54
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.183	0.346	0.437
SE(B)	0.193	0.203	0.230
A	-2.838	-3.149	-3.412
WOMEN			
B	0.261	0.417	0.561
SE(B)	0.475	0.487	0.569
A	-4.918	-4.968	-5.214
AGE 45-54 AT EXAM			
MEN			
B	0.157	0.031	-0.032
SE(B)	0.159	0.171	0.183
A	-2.310	-2.330	-2.347
WOMEN			
B	0.783	0.716	0.776
SE(B)	0.300	0.311	0.317
A	-4.513	-4.619	-4.781
AGE 55-64 AT EXAM			
MEN			
B	0.572	0.288	0.307
SE(B)	0.187	0.171	0.171
A	-2.082	-2.055	-2.309
WOMEN			
B	0.628	0.649	0.699
SE(B)	0.328	0.286	0.284
A	-3.756	-3.890	-4.178

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 3-18-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: HYPERTENSION

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	17	19		12138	52	43		8258	77	93		2328	27	116	
NO	5330	7	13	12.1	6302	19	30	31.3	3786	24	63	73.0	932	4	43	58.1
BORDER	2636	5	19	23.0	3740	19	51	46.9	2646	33	125	97.3	886	13	147	114.7
DEFINITE	1024	5	49	43.6	2096	14	67	70.3	1826	20	110	129.4	510	10	196	223.9
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	12	8		11376	20	18		3532	12	34	
NO	8552	1	1	0.8	8690	2	2	4.6	4098	1	2	4.3	840	2	24	13.2
BORDER	2036	0	0	3.0	4564	8	18	8.7	4114	7	17	13.2	1404	2	14	27.0
DEFINITE	658	1	15	10.6	2426	2	8	16.5	3164	12	38	40.4	1288	8	62	55.2
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.643	1.283	0.408	0.639	0.292	1.120	0.691	0.721
SE(B)	0.307	0.846	0.172	0.354	0.141	0.344	0.257	0.439
A	-6.019	-8.718	-5.067	-6.988	-4.212	-7.051	-4.443	-5.937

TABLE 3-19-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: GLUCOSE INTOLERANCE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	54	44	35	63	51	40	1091	1124	1081	9	9	7	8	8	6	
																			MEN
NO	820	850	864	53	44	33	65	52	38	1068	1108	1062	9	8	6	8	7	6	B -0.939******* 1.086
YES	38	19	19	1	0	2	26	0	105	23	16	19	0	1	1	0	63	53	SE(B) 1.023 ****** 0.768
																			A -2.672******* -3.226
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B******* 2.216 2.280
																			SE(B)****** 1.092 1.106
																			A******* -4.924 -5.170
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	72	66	61	102	90	86	870	891	925	22	17	15	25	19	16	
																			MEN
NO	657	680	672	66	56	56	100	82	83	830	866	892	21	15	14	25	17	16	B 0.246 1.025 0.481
YES	48	50	39	6	10	5	125	200	128	40	25	33	1	2	1	25	80	30	SE(B) 0.455 0.380 0.499
																			A -2.192 -2.411 -2.398
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B -0.012 1.596 0.673
																			SE(B) 1.037 0.782 1.051
																			A -3.651 -4.038 -4.139
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	60	63	59	182	140	111	426	592	701	21	26	23	49	44	33	
																			MEN
NO	304	423	492	51	59	55	168	139	112	395	552	653	18	22	21	46	40	32	B 0.966 0.070 -0.096
YES	26	27	39	9	4	4	346	148	103	31	40	48	3	4	2	97	100	42	SE(B) 0.440 0.560 0.547
																			A -1.602 -1.820 -2.073
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 0.808 0.985 0.269
																			SE(B) 0.654 0.570 0.756
																			A -3.042 -3.182 -3.404

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 3-19-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: MYOCARDIAL INFARCTION
CHARACTERISTIC: GLUCOSE INTOLERANCE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	17	19		12138	52	43		8258	77	93		2328	27	116	
NO	8716	17	20	19.5	11458	43	38	37.5	7612	67	88	88.0	2098	21	100	100.1
YES	274	0	0	0.0	680	9	132	132.4	646	10	155	154.8	230	6	261	260.9
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	2	2		15680	12	8		11376	20	18		3532	12	34	
NO	11060	1	1	0.9	15182	11	7	7.2	10684	17	16	15.9	3202	11	34	34.4
YES	186	1	54	53.8	498	1	20	20.1	692	3	43	43.4	330	1	30	30.3
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	4.096	1.280	1.022	0.578	1.008	0.991	-0.126
SE(B)	******	1.418	0.371	1.046	0.344	0.629	0.474	1.048
A	*******	-8.618	-4.885	-6.535	-4.022	-5.747	-3.891	-4.974

TABLE 4-1-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	31	16	13	36	18	15	1091	1124	1081	11	10	9	10	9	8	
074-109	35	71	91	0	0	0	0	0	0	101	204	247	0	2	1	0	10	4	MEN
110-119	115	163	190	1	0	4	9	0	21	234	310	312	4	2	4	17	6	13	B 0.030 0.021 0.022
120-129	183	215	246	6	3	1	33	14	4	279	267	263	2	2	2	7	7	8	SE(B) 0.009 0.013 0.012
130-139	236	203	181	4	7	3	17	34	17	212	180	138	2	2	0	9	11	0	A -7.401 -6.745 -7.071
140-149	154	123	99	9	4	2	58	33	20	120	83	66	2	1	0	17	12	0	
150-159	56	49	37	5	2	2	89	41	54	68	43	28	0	1	1	0	23	36	WOMEN
160-169	41	22	20	2	0	1	49	0	50	46	17	14	1	0	0	22	0	0	B -0.002 0.006 0.020
170-179	23	12	9	2	0	0	87	0	0	18	9	6	0	0	1	0	0	167	SE(B) 0.017 0.017 0.016
180-189	7	6	8	1	0	0	143	0	0	6	8	2	0	0	0	0	0	0	A -4.373 -5.413 -7.269
190-300	8	5	2	1	0	0	125	0	0	7	3	5	0	0	0	0	0	0	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	54	51	41	77	70	58	870	891	925	56	37	28	64	42	30	
074-109	23	49	53	1	1	0	43	20	0	23	50	104	0	0	1	0	0	10	MEN
110-119	82	119	134	4	7	6	49	59	45	66	128	163	1	1	2	15	8	12	B 0.001 0.013 0.018
120-129	145	163	160	14	9	10	97	55	63	140	153	172	3	6	5	21	39	29	SE(B) 0.006 0.006 0.008
130-139	136	163	141	12	13	9	88	80	64	174	178	167	7	5	5	40	28	30	A -2.660 -4.301 -5.241
140-149	123	106	105	11	9	5	89	85	48	133	129	103	7	6	5	53	47	49	
150-159	76	60	53	2	5	4	26	83	75	109	93	83	9	4	2	83	43	24	WOMEN
160-169	50	30	32	4	2	4	80	67	125	77	60	50	7	4	1	91	67	20	B 0.022 0.019 0.017
170-179	30	14	18	1	1	0	33	71	0	56	31	39	4	5	4	71	161	103	SE(B) 0.004 0.005 0.006
180-189	18	12	7	3	2	2	167	167	286	41	33	19	8	2	2	195	61	105	A -6.038 -5.849 -5.860
190-300	22	14	8	2	2	1	91	143	125	51	36	25	10	4	1	196	111	40	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	27	31	33	82	69	62	426	592	701	46	54	49	108	91	70	
074-109	9	24	47	2	0	4	222	0	85	13	17	26	2	3	3	154	176	115	MEN
110-119	24	52	75	1	4	2	42	77	27	17	38	54	1	2	1	59	53	19	B 0.008 -0.002 -0.007
120-129	51	72	97	3	6	10	59	83	103	40	64	111	4	3	6	100	47	54	SE(B) 0.007 0.007 0.008
130-139	64	97	99	4	8	6	63	82	61	66	84	124	3	6	5	45	71	40	A -3.631 -2.371 -1.758
140-149	57	64	63	3	5	3	53	78	48	61	79	90	6	4	6	98	51	67	
150-159	49	48	57	5	4	3	102	83	53	65	103	88	4	8	4	62	78	45	WOMEN
160-169	23	36	34	2	1	3	87	28	88	44	70	60	8	11	7	182	157	117	B 0.010 0.015 0.014
170-179	22	19	17	4	1	1	182	53	59	41	44	55	7	2	4	171	45	73	SE(B) 0.005 0.005 0.005
180-189	11	12	15	1	0	1	91	0	67	24	31	36	1	3	4	42	97	111	A -3.690 -4.594 -4.798
190-300	20	26	27	2	2	0	100	77	0	55	62	57	10	12	9	182	194	158	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 4-1-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	7	8		12138	33	27		8258	62	75		2328	13	56	
074-109	718	0	0	5.7	742	2	27	18.5	494	1	20	38.7	120	0	0	118.8
110-119	1736	1	6	6.4	2036	2	10	21.0	1020	4	39	46.0	202	5	248	90.7
120-129	2308	2	9	7.1	2638	8	30	23.4	1512	8	53	53.5	326	2	61	75.8
130-139	2046	2	10	8.0	2638	7	27	26.4	1552	11	71	63.0	430	0	0	61.1
140-149	1172	1	9	9.0	1742	4	23	29.6	1246	8	64	73.6	394	2	51	50.2
150-159	522	1	19	10.1	1060	5	47	33.3	882	8	91	86.5	312	2	64	41.3
160-169	252	0	0	11.2	584	3	51	37.3	562	6	107	100.6	202	2	99	34.1
170-179	130	0	0	12.6	310	0	0	41.8	396	8	202	117.5	100	0	0	27.9
180-189	62	0	0	14.1	204	1	49	47.3	232	3	129	136.4	86	0	0	22.3
190-300	44	0	0	18.2	184	1	54	60.5	362	5	138	201.0	156	0	0	14.1
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	5	4		15680	23	15		11376	66	58		3532	23	65	
074-109	2024	0	0	2.4	1398	1	7	5.3	444	1	23	21.5	68	0	0	31.5
110-119	2962	0	0	3.1	2668	2	7	7.0	1034	0	0	26.7	200	0	0	36.6
120-129	2710	3	11	4.0	3082	4	13	8.9	1558	8	51	32.2	300	1	33	41.3
130-139	1786	0	0	5.1	3046	2	7	11.4	1904	5	26	38.9	504	4	79	47.5
140-149	898	1	11	6.6	1978	2	10	14.6	1666	8	48	47.2	576	4	69	53.6
150-159	454	1	22	8.4	1388	2	14	18.5	1526	9	59	57.0	514	4	78	61.1
160-169	218	0	0	10.6	792	2	25	23.6	1070	7	65	68.7	438	0	0	69.0
170-179	94	0	0	13.9	528	2	38	30.1	792	13	164	82.9	344	0	0	78.6
180-189	52	0	0	17.4	390	3	77	38.2	580	2	34	99.7	224	4	179	89.6
190-300	48	0	0	36.4	410	3	73	92.1	802	13	162	170.0	364	6	165	122.7
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.012	0.025	0.012	0.025	0.016	0.019	-0.020	0.013
SE(B)	0.020	0.018	0.008	0.005	0.004	0.004	0.013	0.007
A	-7.985	-10.203	-6.826	-9.367	-6.528	-7.436	-1.649	-6.412

TABLE 4-2-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	31	16	13	36	18	15	1091	1124	1081	11	10	9	10	9	8
020-069	44	79	92	0	0	0	0	0	0	103	205	229	0	2	1	0	10	4
070-074	108	136	152	0	1	1	0	7	7	198	251	263	3	2	3	15	8	11
075-079	71	92	116	0	1	2	0	11	17	136	154	188	1	1	2	7	6	11
080-084	194	207	185	6	3	2	31	14	11	275	248	179	1	2	0	4	8	0
085-089	112	101	126	4	4	1	36	40	8	102	106	97	2	1	1	20	9	10
090-094	154	115	104	7	2	2	45	17	19	144	76	64	3	1	1	21	13	16
095-099	62	65	43	1	2	1	16	31	23	51	34	29	0	0	0	0	0	0
100-104	63	32	35	4	0	3	63	0	86	50	27	19	1	1	0	20	37	0
105-109	11	21	15	2	1	0	182	48	0	11	13	5	0	0	0	0	0	0
110-160	39	21	15	7	2	1	179	95	67	21	10	8	0	0	1	0	0	125
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	54	51	41	77	70	58	870	891	925	56	37	28	64	42	30
020-069	20	59	65	1	2	2	50	34	31	21	63	99	1	0	1	48	0	10
070-074	67	77	93	3	5	7	45	65	75	74	123	129	3	2	1	41	16	8
075-079	55	90	92	4	5	2	73	56	22	80	101	135	6	3	5	75	30	37
080-084	174	142	142	19	9	6	109	63	42	191	187	203	6	8	7	31	43	34
085-089	74	101	99	6	9	8	81	89	81	100	112	120	6	3	4	60	27	33
090-094	127	109	86	10	9	7	79	83	81	159	124	89	4	6	2	25	48	22
095-099	56	57	59	1	5	3	18	88	51	69	55	59	7	4	3	101	73	51
100-104	69	53	31	6	4	1	87	75	32	77	51	38	9	4	3	117	78	79
105-109	21	16	18	1	0	3	48	0	167	26	21	15	0	3	0	0	143	0
110-160	42	26	26	3	3	2	71	115	77	73	54	38	14	4	2	192	74	53
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	27	31	33	82	69	62	426	592	701	46	54	49	108	91	70
020-069	17	37	54	0	3	1	0	81	19	13	31	47	3	5	4	231	161	85
070-074	31	63	82	2	2	6	65	32	73	35	68	81	3	10	4	86	147	49
075-079	40	61	61	3	4	3	75	66	49	27	55	77	3	1	6	111	18	78
080-084	70	84	113	6	5	7	86	60	62	73	107	147	6	9	7	82	84	48
085-089	36	42	59	3	2	4	83	48	68	54	72	99	5	3	6	93	42	61
090-094	53	67	60	5	9	8	94	134	133	80	87	97	6	3	6	75	34	62
095-099	22	29	35	0	2	3	0	69	86	34	57	53	3	6	6	88	105	113
100-104	26	29	20	2	1	0	77	34	0	49	49	40	6	5	4	122	102	100
105-109	7	7	16	2	0	0	286	0	0	12	20	24	1	2	1	83	100	42
110-160	28	31	31	4	3	1	143	97	32	49	46	36	10	10	5	204	217	139
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.066	0.050	0.059
SE(B)	0.013	0.020	0.021
A	-9.284	-8.278	-9.297
WOMEN			
B	0.012	-0.001	0.033
SE(B)	0.025	0.029	0.025
A	-5.544	-4.657	-7.379
AGE 45-54 AT EXAM			
MEN			
B	-0.002	0.018	0.018
SE(B)	0.011	0.012	0.013
A	-2.290	-4.104	-4.355
WOMEN			
B	0.036	0.036	0.024
SE(B)	0.009	0.010	0.013
A	-5.984	-6.300	-5.509
AGE 55-64 AT EXAM			
MEN			
B	0.023	0.011	0.004
SE(B)	0.013	0.013	0.012
A	-4.443	-3.511	-3.031
WOMEN			
B	0.016	0.016	0.015
SE(B)	0.010	0.010	0.011
A	-3.611	-3.692	-3.921

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 4-2-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	7	8		12138	33	27		8258	62	75		2328	13	56	
020-069	724	0	0	2.8	746	2	27	21.1	640	3	47	41.9	276	0	0	62.2
070-074	1314	0	0	3.9	1478	5	34	23.0	1124	6	53	50.1	374	5	134	59.2
075-079	988	1	10	5.0	1232	3	24	24.5	866	8	92	57.3	256	1	39	57.6
080-084	2240	1	4	6.2	2928	7	24	25.9	1842	7	38	64.8	502	3	60	56.1
085-089	1206	3	25	7.9	1644	2	12	27.5	906	4	44	74.1	258	0	0	54.5
090-094	1174	0	0	9.9	1732	4	23	29.1	1170	13	111	83.8	294	2	68	53.1
095-099	546	0	0	12.3	828	3	36	30.8	542	6	111	95.2	104	1	96	51.7
100-104	456	1	22	15.3	840	3	36	32.5	570	8	140	107.3	130	1	77	50.4
105-109	132	0	0	19.5	268	1	37	34.6	164	1	61	122.9	30	0	0	48.5
110-160	210	1	48	30.8	442	3	68	38.5	434	6	138	160.9	104	0	0	45.8
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	5	4		15680	23	15		11376	66	58		3532	23	65	
020-069	1910	0	0	1.7	1412	3	21	4.8	742	5	67	31.5	280	1	36	35.1
070-074	2420	1	4	2.5	2446	0	0	6.8	1356	9	66	38.0	408	2	49	42.7
075-079	1592	0	0	3.3	1778	2	11	8.7	1050	5	48	43.5	320	2	63	49.0
080-084	2470	1	4	4.2	3638	2	5	10.8	2472	9	36	49.0	800	4	50	55.2
085-089	1104	0	0	5.6	1886	1	5	13.8	1418	5	35	55.7	358	1	28	63.3
090-094	878	1	11	7.1	2000	5	25	17.4	1774	12	68	63.1	572	5	87	71.6
095-099	360	2	56	9.2	794	1	13	21.7	754	1	13	71.4	274	2	73	81.3
100-104	290	0	0	11.7	806	4	50	27.1	860	7	81	80.3	278	2	72	91.7
105-109	100	0	0	15.8	258	0	0	35.1	282	4	142	91.5	52	1	192	104.8
110-160	122	0	0	33.5	662	5	76	65.0	668	9	135	118.7	190	3	158	137.2
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.046	0.052	0.012	0.047	0.026	0.025	-0.006	0.026
SE(B)	0.028	0.028	0.014	0.012	0.009	0.008	0.021	0.015
A	-10.455	-11.295	-6.219	-9.958	-6.455	-6.681	-4.023	-6.617

TABLE 4-3-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	31	16	13	36	18	15	1091	1124	1081	11	10	9	10	9	8	
096-189	140	171	173	1	1	0	7	6	0	210	333	330	3	5	4	14	15	12	MEN
190-204	94	99	115	3	2	2	32	20	17	133	206	187	1	2	2	8	10	11	B 0.008 0.005 0.004
205-219	57	136	141	1	1	3	18	7	21	85	151	155	0	0	1	0	0	6	SE(B) 0.004 0.005 0.006
220-234	108	143	131	6	4	3	56	28	23	98	135	131	0	0	1	0	0	8	A -5.155 -5.062 -5.200
235-249	50	93	99	3	4	1	60	43	10	50	90	96	2	0	0	40	0	0	
250-264	50	69	75	2	2	2	40	29	27	46	56	56	1	0	0	22	0	0	WOMEN
265-279	28	53	45	0	0	0	0	0	0	22	55	36	0	1	0	0	18	0	B -0.005 0.006 0.005
280-294	18	31	37	2	1	2	111	32	54	16	28	29	0	0	0	0	0	0	SE(B) 0.011 0.007 0.008
295-309	12	20	23	0	0	0	0	0	0	6	17	25	0	0	0	0	0	0	A -3.548 -6.163 -5.751
310-696	17	28	31	2	1	0	118	36	0	3	15	14	0	1	1	0	67	71	
UNKNOWN	284	26	13	11	0	0				422	38	22	4	1	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	54	51	41	77	70	58	870	891	925	56	37	28	64	42	30	
096-189	76	95	89	2	3	2	26	32	22	73	101	107	5	4	1	68	40	9	MEN
190-204	59	95	84	6	0	4	102	0	48	41	89	96	0	2	3	0	22	31	B -0.002 0.011 0.008
205-219	50	110	128	3	8	10	60	73	78	55	114	114	2	4	1	36	35	9	SE(B) 0.005 0.004 0.004
220-234	65	124	115	8	9	7	123	73	61	83	143	136	6	3	2	72	21	15	A -2.289 -5.138 -4.580
235-249	47	105	89	2	13	4	43	124	45	41	109	133	3	6	10	73	55	75	
250-264	38	68	80	1	5	5	26	74	63	35	81	96	1	5	3	29	62	31	WOMEN
265-279	25	45	46	2	4	3	80	89	65	40	75	75	1	2	0	25	27	0	B -0.002 0.006 0.007
280-294	26	38	31	2	5	1	77	132	32	30	55	54	3	3	2	100	55	37	SE(B) 0.004 0.003 0.003
295-309	14	19	17	0	0	2	0	0	118	24	30	36	1	3	2	42	100	56	A -2.573 -4.564 -5.099
310-696	10	19	21	0	3	3	0	158	143	38	65	66	1	5	4	26	77	61	
UNKNOWN	295	12	11	28	1	0				410	29	12	33	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	27	31	33	82	69	62	426	592	701	46	54	49	108	91	70	
096-189	50	80	95	2	4	6	40	50	63	13	27	35	0	2	3	0	74	86	MEN
190-204	32	59	51	2	4	4	63	68	78	19	41	46	3	2	2	158	49	43	B 0.012 0.010 0.001
205-219	29	69	87	2	3	6	69	43	69	22	48	64	2	4	4	91	83	63	SE(B) 0.006 0.004 0.004
220-234	40	57	68	4	6	3	100	105	44	46	96	92	5	12	7	109	125	76	A -5.282 -5.013 -2.904
235-249	24	47	72	2	2	3	83	43	42	28	68	84	2	6	5	71	88	60	
250-264	18	54	72	0	3	6	0	56	83	38	73	97	4	3	5	105	41	52	WOMEN
265-279	15	26	27	1	1	0	67	38	0	28	62	88	2	8	7	71	129	80	B 0.001 0.001 0.003
280-294	10	21	25	2	1	0	200	48	0	20	45	51	2	4	2	100	89	39	SE(B) 0.005 0.003 0.003
295-309	9	18	19	1	3	2	111	167	105	19	37	52	2	3	5	105	81	96	A -2.614 -2.675 -3.237
310-696	6	12	13	2	4	3	333	333	231	27	75	82	3	8	9	111	107	110	
UNKNOWN	97	7	2	9	0	0				166	20	10	21	2	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 4-3-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	7	8		12138	33	27		8258	62	75		2328	13	56	
096-189	1524	1	7	5.4	1356	0	0	13.1	980	5	51	51.8	282	1	35	70.9
190-204	994	0	0	6.1	1204	0	0	16.5	844	3	36	58.7	276	1	36	63.8
205-219	1192	0	0	6.5	1740	2	11	19.1	1088	9	83	63.3	306	5	163	60.4
220-234	1318	2	15	7.0	1774	9	51	22.0	1234	10	81	68.4	366	2	55	57.2
235-249	976	1	10	7.5	1506	6	40	25.4	1146	5	44	73.5	268	0	0	54.1
250-264	776	0	0	8.0	1346	4	30	29.0	1024	10	98	79.3	274	3	109	51.0
265-279	552	1	18	8.7	960	2	21	33.5	676	6	89	85.5	214	0	0	48.3
280-294	402	1	25	9.3	660	0	0	38.9	430	3	70	92.2	182	0	0	45.7
295-309	246	0	0	10.1	380	2	53	44.7	292	4	137	99.3	64	1	156	43.2
310-696	338	0	0	12.6	524	5	95	72.8	296	3	101	117.5	78	0	0	39.4
UNKNOWN	672	1			688	3			248	4			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	5	4		15680	23	15		11376	66	58		3532	23	65	
096-189	2924	0	0	1.7	1488	1	7	11.2	440	2	45	38.4	94	0	0	21.1
190-204	1784	0	0	2.7	1442	2	14	11.6	578	2	35	42.1	138	1	72	28.6
205-219	1486	2	13	3.7	1776	4	23	11.8	870	4	46	44.6	246	0	0	33.2
220-234	1352	0	0	5.1	2184	1	5	12.0	1378	8	58	47.3	396	2	51	39.1
235-249	980	0	0	7.0	1930	4	21	12.2	1332	6	45	50.1	444	2	45	46.0
250-264	632	0	0	9.4	1642	1	6	12.4	1498	6	40	53.0	474	3	63	53.7
265-279	442	1	23	13.0	1384	0	0	12.6	1414	7	50	56.2	504	4	79	63.1
280-294	302	1	33	17.8	1022	2	20	12.9	1116	8	72	59.6	368	1	27	75.1
295-309	160	0	0	24.9	670	1	15	13.1	816	4	49	63.3	278	4	144	87.3
310-1124	182	1	55	94.1	1180	2	17	13.7	1506	13	86	73.9	540	6	111	131.3
UNKNOWN	1002	0			962	5			428	6			50	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.005	0.021	0.010	0.001	0.005	0.004	-0.004	0.011
SE(B)	0.008	0.004	0.003	0.005	0.003	0.003	0.007	0.004
A	-7.663	-11.649	-7.602	-6.305	-5.443	-5.547	-3.600	-7.342

TABLE 4-4-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	31	16	13	36	18	15	1091	1124	1081	11	10	9	10	9	8
067-119	18	25	17	1	0	0	56	0	0	180	274	242	1	0	1	6	0	4
120-124	13	43	25	0	0	0	0	0	0	112	245	188	1	1	4	9	4	21
125-129	24	60	29	0	0	0	0	0	0	98	161	170	3	2	3	31	12	18
130-134	61	125	92	0	2	1	0	16	11	86	194	209	0	3	0	0	15	0
135-139	93	125	108	4	2	1	43	16	9	94	106	120	1	1	0	11	9	0
140-144	103	147	133	1	4	2	10	27	15	47	44	70	0	0	0	0	0	0
145-149	68	106	193	2	5	2	29	47	10	5	20	28	0	0	0	0	0	0
150-154	84	101	109	4	0	2	48	0	18	8	15	14	0	1	1	0	67	71
155-159	43	55	98	3	2	3	70	36	31	2	8	6	0	1	0	0	125	0
160-216	50	50	62	2	0	1	40	0	16	5	3	1	0	0	0	0	0	0
UNKNOWN	301	32	17	14	1	1				454	54	33	5	1	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	54	51	41	77	70	58	870	891	925	56	37	28	64	42	30
067-119	11	30	15	0	0	0	0	0	0	77	173	150	2	7	2	26	40	13
120-124	21	44	28	2	3	0	95	68	0	87	192	158	4	7	3	46	36	19
125-129	20	41	28	0	1	1	0	24	36	65	130	144	3	4	4	46	31	28
130-134	43	104	92	4	6	6	93	58	65	75	176	184	4	8	5	53	45	27
135-139	62	99	86	6	9	3	97	91	35	67	87	131	5	4	5	75	46	38
140-144	78	119	134	5	8	5	64	67	37	34	48	63	2	1	2	59	21	32
145-149	49	101	125	3	9	11	61	89	88	15	23	48	0	1	3	0	43	63
150-154	46	88	82	2	4	8	43	45	98	10	12	18	1	2	2	100	167	111
155-159	28	43	63	1	4	3	36	93	48	3	5	8	0	1	1	0	200	125
160-216	33	43	45	2	6	4	61	140	89	1	3	4	0	1	1	0	333	250
UNKNOWN	314	18	13	29	1	0				436	42	17	35	1	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	27	31	33	82	69	62	426	592	701	46	54	49	108	91	70
067-119	22	31	23	1	1	0	45	32	0	42	111	96	5	10	7	119	90	73
120-124	10	22	22	2	1	3	200	45	136	44	105	109	2	8	4	45	76	37
125-129	12	32	32	1	2	4	83	63	125	39	92	100	2	6	10	51	65	100
130-134	31	72	47	0	7	6	0	97	128	50	128	173	7	20	13	140	156	75
135-139	33	69	76	5	8	8	152	116	105	38	57	87	5	2	8	132	35	92
140-144	47	85	94	3	6	4	64	71	43	23	44	59	2	4	2	87	91	34
145-149	16	39	93	1	1	6	63	26	65	7	13	37	0	0	4	0	0	108
150-154	26	47	60	0	2	0	0	43	0	3	9	15	0	0	0	0	0	0
155-159	9	25	47	1	2	1	111	80	21	2	5	8	0	1	0	0	200	0
160-216	17	14	33	2	1	1	118	71	30	1	1	1	0	0	0	0	0	0
UNKNOWN	107	14	4	11	0	0				177	27	16	23	3	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.033	0.016	0.033
SE(B)	0.020	0.021	0.026
A	-8.262	-6.301	-9.156
WOMEN			
B	0.008	0.076	-0.011
SE(B)	0.035	0.028	0.030
A	-5.726	-14.701	-3.346
AGE 45-54 AT EXAM			
MEN			
B	-0.007	0.023	0.025
SE(B)	0.016	0.012	0.014
A	-1.708	-5.849	-6.361
WOMEN			
B	0.017	0.023	0.055
SE(B)	0.020	0.016	0.017
A	-5.193	-6.132	-10.749
AGE 55-64 AT EXAM			
MEN			
B	0.003	0.004	-0.034
SE(B)	0.019	0.015	0.015
A	-3.003	-3.167	2.075
WOMEN			
B	-0.005	-0.006	-0.002
SE(B)	0.021	0.014	0.014
A	-1.656	-1.544	-2.352

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 4-4-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	7	8		12138	33	27		8258	62	75		2328	13	56	
067-119	136	0	0	2.3	148	0	0	15.5	218	2	92	51.3	48	0	0	63.0
120-124	206	0	0	3.1	264	0	0	17.2	164	1	61	56.2	16	0	0	62.0
125-129	272	0	0	3.5	286	0	0	18.5	230	1	43	58.7	44	0	0	60.8
130-134	686	1	15	4.2	820	3	37	20.0	620	4	65	62.2	98	0	0	59.8
135-139	892	1	11	5.1	1032	4	39	21.6	768	8	104	65.7	176	2	114	58.8
140-144	1288	0	0	5.9	1686	2	12	23.1	1280	5	39	69.0	322	2	62	57.8
145-149	1554	0	0	6.9	2080	3	14	24.8	1382	6	43	72.4	386	3	78	57.0
150-154	1286	1	8	8.2	1860	5	27	26.7	1210	10	83	76.3	494	3	61	56.0
155-159	980	1	10	9.7	1474	6	41	28.7	1042	11	106	80.1	342	2	58	55.1
160-216	950	2	21	13.1	1732	6	35	33.0	1054	10	95	88.4	374	1	27	53.5
UNKNOWN	740	1			756	4			290	4			28	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	5	4		15680	23	15		11376	66	58		3532	23	65	
067-119	1962	1	5	5.1	1646	2	12	9.8	940	3	32	29.3	182	1	55	66.6
120-124	1586	1	6	5.0	1722	1	6	11.0	1040	3	29	37.3	236	1	42	66.4
125-129	1550	0	0	5.0	1952	3	15	11.5	1294	5	39	42.5	346	2	58	66.3
130-134	2034	1	5	4.9	2756	5	18	12.2	2258	10	44	48.9	628	3	48	66.3
135-139	1444	2	14	4.9	2534	2	8	12.9	1854	13	70	56.5	620	5	81	66.2
140-144	814	0	0	4.8	1784	1	6	13.5	1560	11	71	64.8	632	9	142	66.1
145-149	428	0	0	4.8	1238	0	0	14.2	1014	5	49	74.0	414	2	48	66.0
150-154	188	0	0	4.8	588	1	17	15.0	512	7	137	85.4	228	0	0	66.0
155-159	78	0	0	4.7	200	2	100	15.8	260	3	115	98.3	124	0	0	65.9
160-216	34	0	0	4.7	156	1	64	17.1	150	0	0	122.6	66	0	0	65.8
UNKNOWN	1128	0			1104	5			494	6			56	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.033	-0.001	0.015	0.011	0.010	0.028	-0.003	-0.000
SE(B)	0.033	0.038	0.016	0.021	0.011	0.011	0.024	0.018
A	-11.450	-6.733	-7.473	-7.412	-5.757	-8.377	-3.980	-4.280

TABLE 4-5-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	31	16	13	36	18	15	1091	1124	1081	11	10	9	10	9	8
062-159	251	235	126	7	4	1	28	17	8	342	441	216	4	5	2	12	11	9
160-179	83	138	72	1	4	1	12	29	14	102	193	127	1	1	1	10	5	8
180-199	99	155	113	4	5	2	40	32	18	92	151	132	0	1	3	0	7	23
200-219	45	133	124	0	1	1	0	8	8	59	150	185	1	0	2	17	0	11
220-239	32	62	121	5	0	3	156	0	25	39	73	148	0	0	0	0	0	0
240-259	30	35	105	1	0	2	33	0	19	18	32	117	0	0	0	0	0	0
260-279	16	38	75	0	0	1	0	0	13	7	22	59	0	0	0	0	0	0
280-299	3	22	60	0	0	1	0	0	17	2	12	42	0	1	0	0	83	0
300-319	4	13	32	1	1	0	250	77	0	1	4	16	0	1	0	0	250	0
320-968	6	11	38	1	1	1	167	91	26	0	6	9	0	0	1	****	0	111
UNKNOWN	289	27	17	11	0	0				429	40	30	5	1	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	54	51	41	77	70	58	870	891	925	56	37	28	64	42	30
062-159	154	207	110	9	10	6	58	48	55	156	201	131	7	5	2	45	25	15
160-179	64	116	78	4	10	2	63	86	26	66	113	87	3	4	2	45	35	23
180-199	45	128	88	4	12	3	89	94	34	72	140	84	7	3	0	97	21	0
200-219	48	114	106	3	5	5	63	44	47	71	166	171	2	10	5	28	60	29
220-239	20	62	87	2	8	7	100	129	80	31	94	93	0	7	4	0	74	43
240-259	27	40	75	0	1	7	0	25	93	18	63	111	1	5	5	56	79	45
260-279	23	28	58	1	4	7	43	143	121	12	51	90	3	3	2	250	59	22
280-299	9	12	46	1	0	2	111	0	43	10	18	59	0	0	2	0	0	34
300-319	4	5	23	0	0	0	0	0	0	5	6	31	0	0	4	0	0	129
320-968	5	4	26	0	0	1	0	0	38	11	7	44	0	0	2	0	0	45
UNKNOWN	306	14	14	30	1	1				418	32	24	33	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	27	31	33	82	69	62	426	592	701	46	54	49	108	91	70
062-159	86	114	72	6	6	4	70	53	56	69	75	56	7	6	2	101	80	36
160-179	48	75	57	3	6	6	63	80	105	37	77	42	7	12	5	189	156	119
180-199	25	70	64	2	3	7	80	43	109	36	105	83	0	5	3	0	48	36
200-219	29	75	72	1	2	1	34	27	14	38	122	108	4	10	9	105	82	83
220-239	14	48	81	2	8	8	143	167	99	28	75	95	2	8	5	71	107	53
240-259	8	25	76	1	2	4	125	80	53	14	44	106	3	7	10	214	159	94
260-279	13	19	44	2	1	2	154	53	45	15	30	59	0	2	3	0	67	51
280-299	3	10	20	0	1	1	0	100	50	5	23	66	0	0	5	0	0	76
300-319	0	2	25	0	2	0	****	1000	0	7	9	41	2	2	5	286	222	122
320-968	2	3	18	1	0	0	500	0	0	6	9	32	0	0	2	0	0	63
UNKNOWN	102	9	2	9	0	0				171	23	13	21	2	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.007	0.001	0.003
SE(B)	0.003	0.005	0.005
A	-4.623	-4.224	-4.961
WOMEN			
B	-0.003	0.003	-0.002
SE(B)	0.010	0.007	0.007
A	-4.268	-5.310	-4.425
AGE 45-54 AT EXAM			
MEN			
B	-0.002	0.002	0.003
SE(B)	0.004	0.003	0.003
A	-2.412	-2.952	-3.490
WOMEN			
B	0.000	0.005	0.008
SE(B)	0.004	0.003	0.003
A	-2.932	-4.190	-5.298
AGE 55-64 AT EXAM			
MEN			
B	0.004	0.006	-0.006
SE(B)	0.004	0.004	0.004
A	-3.277	-3.787	-1.509
WOMEN			
B	-0.002	-0.001	0.003
SE(B)	0.004	0.003	0.003
A	-1.909	-2.126	-3.350

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 4-5-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	7	8		12138	33	27		8258	62	75		2328	13	56	
062-159	1320	1	8	3.9	1130	2	18	11.9	698	2	29	68.0	60	1	167	87.2
160-179	654	0	0	4.8	636	0	0	14.5	450	3	67	69.3	64	0	0	77.9
180-199	942	1	11	5.5	818	2	24	16.3	572	6	105	70.2	46	0	0	73.1
200-219	906	0	0	6.1	1012	2	20	18.5	698	5	72	71.1	182	1	55	67.4
220-239	868	0	0	6.9	1200	1	8	20.9	892	10	112	71.9	210	1	48	62.7
240-259	934	0	0	7.7	1574	4	25	23.4	1188	7	59	72.8	460	5	109	58.2
260-279	928	1	11	8.6	1568	4	26	26.3	1240	9	73	73.7	458	1	22	54.2
280-299	638	2	31	9.6	1346	5	37	29.4	946	7	74	74.5	344	1	29	50.8
300-319	494	1	20	10.9	922	2	22	33.2	646	5	77	75.4	272	2	74	47.2
320-968	594	0	0	14.0	1186	6	51	43.9	656	4	61	77.2	214	1	47	42.4
UNKNOWN	712	1			746	5			272	4			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	5	4		15680	23	15		11376	66	58		3532	23	65	
062-159	2236	0	0	0.3	1322	2	15	19.1	590	4	68	45.4	30	0	0	25.6
160-179	982	0	0	0.7	762	0	0	16.5	440	2	45	47.7	44	0	0	30.7
180-199	1106	0	0	1.1	870	2	23	15.2	596	0	0	49.1	58	1	172	34.9
200-219	1292	1	8	1.9	1552	2	13	13.9	948	5	53	50.8	158	0	0	40.4
220-239	1246	0	0	3.0	1520	5	33	12.8	916	5	55	52.3	188	1	53	45.7
240-259	1184	1	8	4.9	1902	1	5	11.9	1246	8	64	53.7	382	3	79	51.2
260-279	892	0	0	7.7	1998	3	15	11.0	1508	7	46	55.2	574	3	52	57.5
280-299	614	2	33	12.2	1668	2	12	10.2	1422	6	42	56.9	586	3	51	64.7
300-319	364	0	0	19.4	1358	1	7	9.4	1374	12	87	58.5	666	5	75	72.4
320-968	264	1	38	52.7	1666	0	0	8.1	1870	11	59	61.9	782	7	90	92.4
UNKNOWN	1066	0			1062	5			466	6			64	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.006	0.024	0.006	-0.004	0.001	0.001	-0.004	0.006
SE(B)	0.006	0.008	0.003	0.004	0.002	0.002	0.006	0.004
A	-7.903	-12.857	-6.828	-5.032	-4.365	-4.890	-3.529	-6.112

TABLE 4-6-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	31	16	13	36	18	15	1091	1124	1081	11	10	9	10	9	8
029-059	15	20	17	0	0	0	0	0	0	12	18	20	0	0	0	0	0	0
060-069	152	137	145	7	7	4	46	51	28	149	176	171	3	4	2	20	23	12
070-079	212	313	318	7	4	4	33	13	13	287	396	390	4	4	2	14	10	5
080-089	181	211	220	4	2	1	22	9	5	236	301	305	1	2	3	4	7	10
090-099	71	105	111	2	1	1	28	10	9	91	128	110	1	0	1	11	0	9
100-109	30	38	41	1	1	1	33	26	24	33	45	33	1	0	1	30	0	30
110-119	17	13	11	0	0	1	0	0	91	14	17	15	0	0	0	0	0	0
120-129	6	2	6	0	0	0	0	0	0	5	7	5	0	0	0	0	0	0
130-139	5	5	3	0	0	0	0	0	0	2	1	4	0	0	0	0	0	0
140-524	4	5	4	1	0	0	250	0	0	4	5	7	0	0	0	0	0	0
UNKNOWN	165	20	7	9	1	1				258	30	21	1	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	54	51	41	77	70	58	870	891	925	56	37	28	64	42	30
029-059	11	15	13	1	1	0	91	67	0	5	10	13	0	0	0	0	0	0
060-069	100	98	100	10	8	10	100	82	100	86	121	121	3	4	5	35	33	41
070-079	150	245	220	12	23	15	80	94	68	168	255	327	9	9	9	54	35	28
080-089	127	179	208	4	8	9	31	45	43	192	281	262	8	13	8	42	46	31
090-099	79	102	90	6	7	5	76	69	56	87	112	113	5	5	4	57	45	35
100-109	19	34	41	2	2	1	105	59	24	45	46	35	4	4	0	89	87	0
110-119	13	23	13	2	0	0	154	0	0	14	23	21	1	1	1	71	43	48
120-129	2	7	5	0	1	0	0	143	0	6	2	4	0	0	0	0	0	0
130-139	6	2	1	0	0	0	0	0	0	2	4	5	0	0	1	0	0	200
140-524	14	16	14	1	1	1	71	63	71	8	13	14	1	0	0	125	0	0
UNKNOWN	184	9	6	16	0	0				257	24	10	25	1	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	27	31	33	82	69	62	426	592	701	46	54	49	108	91	70
029-059	8	9	6	3	1	0	375	111	0	5	15	12	0	3	2	0	200	167
060-069	38	61	75	1	6	8	26	98	107	33	60	58	2	8	4	61	133	69
070-079	88	136	154	10	11	12	114	81	78	93	157	200	15	10	14	161	64	70
080-089	67	117	130	6	9	9	90	77	69	88	164	220	8	14	12	91	85	55
090-099	35	56	85	1	1	1	29	18	12	53	95	93	4	9	7	75	95	75
100-109	12	20	30	1	0	1	83	0	33	24	46	51	2	4	4	83	87	78
110-119	8	17	18	1	2	1	125	118	56	4	9	18	0	0	2	0	0	111
120-129	3	7	13	1	1	1	333	143	77	6	12	17	1	1	1	167	83	59
130-139	2	2	4	0	0	0	0	0	0	4	1	3	0	1	1	0	1000	333
140-524	9	13	13	1	0	0	111	0	0	13	16	21	0	2	2	0	125	95
UNKNOWN	60	12	3	2	0	0				103	17	8	14	2	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.007	-0.030	-0.006
SE(B)	0.012	0.024	0.021
A	-3.952	-1.697	-3.774
WOMEN			
B	-0.017	-0.058	0.002
SE(B)	0.027	0.032	0.019
A	-3.090	-0.235	-4.956
AGE 45-54 AT EXAM			
MEN			
B	-0.004	-0.009	-0.012
SE(B)	0.007	0.009	0.011
A	-2.215	-1.807	-1.794
WOMEN			
B	0.006	0.003	-0.001
SE(B)	0.008	0.008	0.010
A	-3.457	-3.427	-3.400
AGE 55-64 AT EXAM			
MEN			
B	-0.002	-0.015	-0.024
SE(B)	0.008	0.012	0.013
A	-2.098	-1.345	-0.737
WOMEN			
B	-0.013	-0.001	0.004
SE(B)	0.011	0.005	0.004
A	-1.142	-2.206	-2.965

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 4-6-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	7	8		12138	33	27		8258	62	75		2328	13	56	
C29-059	290	0	0	18.9	342	1	29	35.4	246	4	163	82.0	54	0	0	63.6
060-069	1716	1	6	12.4	2180	7	32	31.5	1320	9	68	80.1	414	3	72	60.9
070-079	2930	5	17	8.7	3916	14	36	28.2	2516	23	91	78.4	674	3	45	58.7
080-089	2086	1	5	6.1	2780	2	7	25.2	1986	13	65	76.7	522	4	77	56.5
090-099	918	0	0	4.2	1340	5	37	22.5	976	5	51	75.0	336	1	30	54.3
100-109	340	0	0	2.9	526	1	19	19.9	414	4	97	73.4	112	1	89	52.1
110-119	160	0	0	2.0	252	0	0	17.6	226	0	0	71.6	46	1	217	50.0
120-129	52	0	0	1.3	88	0	0	15.8	122	1	82	70.0	34	0	0	47.9
130-139	36	0	0	0.9	54	1	185	13.9	54	0	0	68.3	34	0	0	46.4
140-524	60	0	0	0.3	234	0	0	7.5	216	3	139	59.0	78	0	0	35.2
UNKNOWN	402	0			426	2			182	0			24	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	5	4		15680	23	15		11376	66	58		3532	23	65	
C29-059	262	0	0	6.7	296	0	0	8.5	240	1	42	51.0	54	1	185	95.6
060-069	1874	2	11	5.7	2698	3	11	9.7	1454	15	103	52.1	414	4	97	83.1
070-079	3918	1	3	5.0	5228	5	10	11.0	3560	12	34	53.0	1118	5	45	73.4
C80-089	2916	1	3	4.3	3936	6	15	12.5	3068	21	68	54.0	918	6	65	65.2
090-099	1010	1	10	3.7	1620	2	12	14.2	1376	5	36	55.1	462	5	108	57.7
100-109	334	0	0	3.2	628	0	0	16.2	616	0	0	56.2	238	2	84	51.2
110-119	140	0	0	2.7	300	2	67	18.5	268	2	75	57.3	80	0	0	44.5
120-129	52	0	0	2.3	102	0	0	20.9	190	1	53	58.4	88	0	0	39.5
130-139	20	0	0	2.0	42	0	0	24.2	58	0	0	59.7	28	0	0	35.3
140-524	58	0	0	1.0	160	1	63	79.5	252	3	119	69.4	90	0	0	18.1
UNKNOWN	662	0			670	4			294	6			42	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	-0.038	-0.015	-0.012	0.013	-0.002	0.002	-0.004	-0.013
SE(B)	0.033	0.039	0.012	0.005	0.006	0.004	0.012	0.013
A	-3.517	-5.776	-4.272	-7.098	-3.967	-4.685	-4.126	-3.265

TABLE 4-7-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: URIC ACID (MG/LITER)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	31	16	13	36	18	15	1091	1124	1081	11	10	9	10	9	8
005-029	29	15	22	2	1	0	69	67	0	187	169	170	2	2	0	11	12	0
030-034	36	41	29	2	1	0	56	24	0	119	208	255	1	1	3	8	5	12
035-039	74	51	63	0	0	0	0	0	0	124	271	266	1	3	5	8	11	19
040-044	77	136	147	3	2	2	39	15	14	111	219	209	3	2	0	27	9	0
045-049	90	155	183	2	4	3	22	26	16	66	117	87	0	1	0	0	9	0
050-054	97	151	172	4	1	3	41	7	17	22	56	44	0	0	0	0	0	0
055-059	73	120	138	5	2	3	68	17	22	23	28	20	0	0	1	0	0	50
060-064	43	87	65	0	1	1	0	11	15	6	9	3	0	0	0	0	0	0
065-069	29	51	29	1	2	1	34	39	34	4	4	4	0	0	0	0	0	0
070-104	24	35	22	1	2	0	42	57	0	5	4	1	0	0	0	0	0	0
UNKNOWN	286	27	13	11	0	0				424	39	22	4	1	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	54	51	41	77	70	58	870	891	925	56	37	28	64	42	30
005-029	22	16	8	1	1	0	45	63	0	88	99	102	2	4	4	23	40	39
030-034	27	23	25	1	2	1	37	87	40	70	113	157	3	6	3	43	53	19
035-039	45	66	48	4	1	1	89	15	21	77	171	200	5	8	4	65	47	20
040-044	50	101	120	1	6	6	20	59	50	72	175	184	3	5	5	42	29	27
045-049	71	118	146	3	8	10	42	68	68	76	118	130	6	4	5	79	34	38
050-054	58	115	133	4	11	8	69	96	60	36	82	84	2	4	4	56	49	48
055-059	56	108	92	5	7	5	89	65	54	15	60	40	0	3	3	0	50	75
060-064	35	78	78	2	5	6	57	64	77	13	26	9	1	3	0	77	115	0
065-069	21	47	30	1	1	2	48	21	67	8	8	4	1	0	0	125	0	0
070-104	24	46	19	3	8	2	125	174	105	3	7	2	0	0	0	0	0	0
UNKNOWN	296	12	12	29	1	0				412	32	13	33	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	27	31	33	82	69	62	426	592	701	46	54	49	108	91	70
005-029	8	8	5	0	0	1	0	0	200	26	58	53	1	5	2	38	86	38
030-034	18	20	14	2	1	0	111	50	0	37	72	98	3	9	5	81	125	51
035-039	26	44	53	3	4	1	115	91	19	49	101	132	5	8	11	102	79	83
040-044	37	57	84	2	3	4	54	53	48	59	117	166	10	5	12	169	43	72
045-049	37	76	104	1	6	5	27	79	48	36	94	114	1	9	10	28	96	88
050-054	35	78	104	5	8	9	143	103	87	27	59	62	4	8	5	148	136	81
055-059	33	61	85	1	2	4	30	33	47	15	37	34	0	4	3	0	108	88
060-064	17	53	42	0	2	4	0	38	95	3	18	16	0	1	0	0	56	0
065-069	12	26	25	2	5	4	167	192	160	3	10	10	1	1	0	333	100	0
070-104	10	19	12	2	0	1	200	0	83	3	6	6	0	2	1	0	333	167
UNKNOWN	97	8	3	9	0	0				168	20	10	21	2	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.001	0.014	0.026
SE(B)	0.018	0.023	0.027
A	-3.351	-4.676	-5.524
WOMEN			
B	-0.002	-0.009	0.005
SE(B)	0.035	0.038	0.041
A	-4.463	-4.449	-4.959
AGE 45-54 AT EXAM			
MEN			
B	0.017	0.020	0.022
SE(B)	0.016	0.012	0.016
A	-3.591	-3.622	-3.905
WOMEN			
B	0.025	0.006	0.026
SE(B)	0.019	0.016	0.021
A	-3.965	-3.338	-4.538
AGE 55-64 AT EXAM			
MEN			
B	0.009	0.002	0.032
SE(B)	0.020	0.017	0.018
A	-2.944	-2.663	-4.348
WOMEN			
B	0.004	0.010	0.007
SE(B)	0.021	0.014	0.015
A	-2.417	-2.713	-2.886

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 4-7-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: URIC ACID (MG/LITER)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	7	8		12138	33	27		8258	62	75		2328	13	56	
005-029	188	0	0	1.4	170	0	0	15.1	74	1	135	42.2	36	0	0	82.7
030-034	348	0	0	2.1	356	0	0	17.4	312	0	0	49.8	66	1	152	74.5
035-039	628	0	0	2.8	976	4	41	19.2	732	8	109	54.5	188	1	53	69.4
040-044	1384	1	7	3.8	1760	1	6	21.1	1328	4	30	60.7	438	1	23	63.2
045-049	1644	1	6	5.0	2340	6	26	23.3	1692	13	77	67.2	460	3	65	58.2
050-054	1568	0	0	6.7	2228	8	36	25.7	1396	9	64	74.2	388	4	103	53.9
055-059	1210	1	8	9.0	1632	4	25	28.5	1194	9	75	82.0	364	2	55	49.6
060-064	700	1	14	12.0	984	3	30	31.4	708	6	85	90.6	212	1	47	45.7
065-069	390	1	26	16.2	516	1	19	34.8	312	5	160	100.8	92	0	0	42.1
070-104	244	1	41	30.9	438	2	46	42.5	246	3	122	122.6	58	0	0	35.9
UNKNOWN	686	1			738	4			264	4			26	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	5	4		15680	23	15		11376	66	58		3532	23	65	
005-029	1826	0	0	3.7	2144	0	0	5.7	986	4	41	37.1	256	2	78	121.8
030-034	2292	1	4	4.3	2666	3	11	7.8	1566	8	51	43.3	440	5	114	93.8
035-039	2476	3	12	4.8	3348	4	12	10.0	2220	10	45	48.5	706	3	42	76.8
040-044	2006	0	0	5.4	3120	3	10	12.9	2560	16	63	54.5	756	8	106	62.4
045-049	886	1	11	6.0	1684	3	18	16.6	1744	8	46	61.4	650	5	77	50.5
050-054	382	0	0	6.6	956	3	31	21.5	976	6	61	69.0	342	0	0	40.7
055-059	224	0	0	7.4	416	1	24	27.5	462	3	65	77.2	192	0	0	34.2
060-064	66	0	0	8.2	198	1	51	35.0	220	3	136	86.2	62	0	0	27.5
065-069	32	0	0	9.3	98	0	0	46.0	132	0	0	97.1	36	0	0	22.5
070-104	26	0	0	11.3	28	0	0	62.0	58	2	345	116.3	24	0	0	14.6
UNKNOWN	1030	0			1022	5			452	6			68	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.059	0.022	0.020	0.052	0.021	0.024	-0.017	-0.043
SE(B)	0.033	0.049	0.017	0.023	0.013	0.013	0.029	0.024
A	-9.678	-7.753	-6.325	-8.122	-5.286	-5.511	-3.630	-2.579

TABLE 4-8-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	31	16	13	36	18	15	1091	1124	1081	11	10	9	10	9	8
052-084	98	84	73	1	0	0	10	0	0	196	196	174	1	1	2	5	5	11
085-089	77	76	82	2	1	0	26	13	0	128	149	159	2	2	2	16	13	13
090-094	104	113	92	2	4	2	19	35	22	153	179	166	1	1	3	7	6	18
095-099	120	133	140	5	3	4	42	23	29	153	155	142	1	0	0	7	0	0
100-104	107	102	117	3	0	1	28	0	9	120	110	130	0	2	1	0	18	8
105-109	112	105	115	4	1	0	36	10	0	96	92	84	1	1	0	10	11	0
110-114	88	99	106	7	3	3	80	30	28	64	60	60	2	1	0	31	17	0
115-119	57	62	57	3	1	0	53	16	0	45	57	44	1	0	0	22	0	0
120-124	40	41	43	2	0	0	50	0	0	29	38	37	0	0	0	0	0	0
125-226	50	49	53	2	3	3	40	61	57	96	75	75	2	2	1	21	27	13
UNKNOWN	5	5	5	0	0	0				11	13	10	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	54	51	41	77	70	58	870	891	925	56	37	28	64	42	30
052-084	55	63	63	2	2	2	36	32	32	68	81	92	3	1	0	44	12	0
085-089	48	49	52	1	1	2	21	20	38	56	73	86	4	6	2	71	82	23
090-094	99	81	80	6	3	4	61	37	50	83	89	109	2	3	3	24	34	28
095-099	97	118	89	8	7	0	82	59	0	123	119	141	6	4	2	49	34	14
100-104	107	107	116	10	12	9	93	112	78	127	126	120	7	5	8	55	40	67
105-109	117	103	103	9	8	10	77	78	97	100	101	99	7	6	3	70	59	30
110-114	67	88	81	9	10	8	134	114	99	78	81	80	4	2	3	51	25	38
115-119	50	54	59	5	4	4	100	74	68	61	67	58	7	2	1	115	30	17
120-124	21	28	26	2	2	0	95	71	0	52	45	34	2	1	1	38	22	29
125-226	39	35	39	2	2	2	51	57	51	119	106	103	14	7	5	118	66	49
UNKNOWN	5	4	3	0	0	0				3	3	3	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	27	31	33	82	69	62	426	592	701	46	54	49	108	91	70
052-084	43	45	43	4	2	2	93	44	47	29	40	50	1	1	3	34	25	60
085-089	23	31	42	2	3	3	87	97	71	25	37	45	2	2	3	80	54	67
090-094	31	44	57	0	0	3	0	0	53	38	56	62	2	5	2	53	89	32
095-099	53	78	81	4	5	3	75	64	37	45	73	98	4	5	2	89	68	20
100-104	48	63	82	3	5	8	63	79	98	51	83	100	8	6	6	157	72	60
105-109	33	57	74	3	4	4	91	70	54	39	55	82	5	9	10	128	164	122
110-114	39	55	75	3	3	4	77	55	53	46	62	55	7	6	3	152	97	55
115-119	24	38	34	3	5	2	125	132	59	43	42	60	4	5	10	93	119	167
120-124	17	19	19	2	2	3	118	105	158	29	49	40	3	4	1	103	82	25
125-226	15	17	23	2	1	1	133	59	43	79	94	107	10	11	9	127	117	84
UNKNOWN	4	3	1	1	1	0				2	1	2	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.028	0.026	0.035
SE(B)	0.012	0.018	0.018
A	-6.187	-6.693	-7.901
WOMEN			
B	0.022	0.018	-0.012
SE(B)	0.013	0.015	0.022
A	-6.851	-6.572	-3.587
AGE 45-54 AT EXAM			
MEN			
B	0.017	0.018	0.016
SE(B)	0.011	0.011	0.012
A	-4.197	-4.431	-4.474
WOMEN			
B	0.020	0.012	0.021
SE(B)	0.006	0.008	0.008
A	-4.822	-4.410	-5.703
AGE 55-64 AT EXAM			
MEN			
B	0.009	0.010	0.005
SE(B)	0.014	0.014	0.014
A	-3.397	-3.669	-3.225
WOMEN			
B	0.008	0.011	0.010
SE(B)	0.007	0.007	0.007
A	-3.048	-3.486	-3.656

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 4-8-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	7	8		12138	33	27		8258	62	75		2328	13	56	
052-084	768	0	0	2.5	970	2	21	19.0	678	2	29	47.8	254	1	39	47.5
085-089	734	0	0	3.4	920	1	11	21.2	552	4	72	55.4	190	0	0	49.1
090-094	980	2	20	4.2	1286	5	39	22.9	856	2	23	60.8	246	3	122	49.9
095-099	1418	0	0	5.2	1688	3	18	24.6	1312	9	69	66.5	336	0	0	50.8
100-104	1194	0	0	6.4	1836	5	27	26.4	1400	13	93	72.8	332	3	90	51.6
105-109	1176	2	17	7.8	1766	5	28	28.4	1148	7	61	79.6	296	1	34	52.4
110-114	1032	1	10	9.5	1396	6	43	30.5	928	9	97	87.0	306	2	65	53.4
115-119	638	0	0	11.7	894	1	11	32.8	594	11	185	95.1	160	0	0	54.2
120-124	432	0	0	14.5	560	2	36	35.3	426	1	23	104.3	84	1	119	55.2
125-226	566	2	35	24.2	758	3	40	41.2	332	4	120	129.5	122	1	82	57.1
UNKNOWN	52	0			64	0			32	0			2	1		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	5	4		15680	23	15		11376	66	58		3532	23	65	
052-084	1924	0	0	2.7	1692	2	12	8.5	916	3	33	35.9	394	2	51	61.7
085-089	1532	1	7	3.2	1666	2	12	10.0	870	6	69	40.9	226	0	0	62.8
090-094	1732	0	0	3.6	1934	2	10	11.0	1138	3	26	44.1	294	3	102	63.5
095-099	1582	2	13	4.0	2302	2	9	12.2	1588	4	25	47.9	450	3	67	64.1
100-104	1222	1	8	4.4	1964	2	10	13.4	1466	6	41	51.7	454	3	66	64.7
105-109	842	0	0	4.9	1600	4	25	14.8	1290	10	78	55.9	424	2	47	65.4
110-114	636	0	0	5.5	1214	1	8	16.3	1084	9	83	60.5	290	2	69	66.1
115-119	500	0	0	6.1	892	1	11	18.0	804	8	100	65.5	252	2	79	66.7
120-124	324	0	0	6.9	630	0	0	19.8	596	1	17	70.8	214	2	93	67.4
125-226	840	1	12	11.0	1690	7	41	30.6	1592	16	101	98.8	524	4	76	69.7
UNKNOWN	112	0			96	0			32	0			10	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.042	0.022	0.015	0.020	0.019	0.016	0.003	0.002
SE(B)	0.024	0.019	0.013	0.009	0.009	0.005	0.021	0.011
A	-10.903	-9.287	-6.735	-7.934	-6.108	-6.196	-4.912	-4.542

TABLE 4-9-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	31	16	13	36	18	15	1091	1124	1081	11	10	9	10	9	8
05-14	1	0	1	0	0	0	0	****	0	9	11	7	0	0	0	0	0	0
15-19	1	5	3	0	0	0	0	0	0	60	46	28	0	1	1	0	22	36
20-24	12	13	10	0	2	0	0	154	0	234	190	189	8	4	2	34	21	11
25-29	43	45	30	3	1	1	70	22	33	414	476	411	2	4	5	5	8	12
30-34	155	124	133	4	1	2	26	8	15	284	309	332	1	1	1	4	3	3
35-39	247	256	244	12	4	5	49	16	20	70	81	96	0	0	0	0	0	0
40-44	235	260	255	5	3	2	21	12	8	10	7	15	0	0	0	0	0	0
45-49	116	119	141	3	2	0	26	17	0	2	2	1	0	0	0	0	0	0
50-54	33	38	56	3	2	3	91	53	54	1	0	0	0	0	0	0	****	****
55-61	5	7	9	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
UNKNOWN	10	2	1	1	1	0				7	2	2	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	54	51	41	77	70	58	870	891	925	56	37	28	64	42	30
05-14	1	1	0	0	0	0	0	0	****	19	29	22	2	2	0	105	69	0
15-19	3	5	4	0	0	0	0	0	0	107	116	88	9	5	4	84	43	45
20-24	24	15	17	1	1	1	42	67	59	326	300	306	25	13	18	77	43	59
25-29	73	71	81	3	4	4	41	56	49	274	308	333	13	13	5	47	42	15
30-34	170	199	191	14	22	16	82	111	84	122	121	152	7	4	1	57	33	7
35-39	220	229	208	22	12	12	100	52	58	16	15	22	0	0	0	0	0	0
40-44	142	154	148	12	11	7	85	71	47	2	1	2	0	0	0	0	0	0
45-49	52	43	48	2	1	0	38	23	0	0	0	0	0	0	0	****	****	****
50-54	15	11	11	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
55-61	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
UNKNOWN	3	0	1	0	0	1				4	1	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	27	31	33	82	69	62	426	592	701	46	54	49	108	91	70
05-14	0	3	4	0	0	0	****	0	0	26	44	52	6	6	4	231	136	77
15-19	3	12	7	1	1	0	333	83	0	82	140	148	9	18	15	110	129	101
20-24	18	34	37	1	0	2	56	0	54	203	247	295	19	13	13	94	53	44
25-29	66	80	99	5	4	5	76	50	51	82	137	160	8	15	15	98	109	94
30-34	103	126	154	8	11	11	78	87	71	24	21	40	3	1	1	125	48	25
35-39	91	133	155	8	11	11	88	83	71	4	2	5	0	0	0	0	0	0
40-44	34	45	57	4	3	4	118	67	70	0	0	0	0	0	0	****	****	****
45-49	8	13	12	0	1	0	0	77	0	0	0	0	0	0	0	****	****	****
50-54	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
55-61	0	0	0	0	0	0	****	****	****	0	0	0	0	0	0	****	****	****
UNKNOWN	6	3	2	0	0	0				5	1	1	1	1	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	-0.016	-0.025	-0.021
SE(B)	0.029	0.039	0.042
A	-2.708	-3.074	-3.378
WOMEN			
B	-0.118	-0.127	-0.093
SE(B)	0.055	0.059	0.064
A	-1.558	-1.393	-2.270
AGE 45-54 AT EXAM			
MEN			
B	0.005	-0.027	-0.038
SE(B)	0.021	0.023	0.026
A	-2.664	-1.621	-1.488
WOMEN			
B	-0.044	-0.038	-0.082
SE(B)	0.028	0.032	0.037
A	-1.616	-2.222	-1.498
AGE 55-64 AT EXAM			
MEN			
B	-0.009	0.028	0.006
SE(B)	0.035	0.029	0.028
A	-2.090	-3.519	-2.897
WOMEN			
B	-0.032	-0.034	-0.015
SE(B)	0.033	0.029	0.029
A	-1.432	-1.594	-2.291

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 4-9-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	7	8		12138	33	27		8258	62	75		2328	13	56	
05-14	6	0	0	2.4	10	0	0	66.6	26	0	0	93.0	14	0	0	86.4
15-19	28	0	0	3.0	72	0	0	51.8	112	1	89	88.0	76	1	132	77.1
20-24	98	0	0	3.6	298	0	0	43.0	462	4	87	84.1	256	1	39	68.4
25-29	340	0	0	4.5	1080	6	56	36.3	1450	10	69	80.1	570	4	70	60.8
30-34	1340	1	7	5.4	2742	11	40	30.6	2336	17	73	76.5	776	5	64	54.0
35-39	2438	1	4	6.7	3712	7	19	25.6	2354	20	85	73.0	456	2	44	47.9
40-44	2590	3	12	8.2	2760	5	18	21.6	1108	8	72	69.8	134	0	0	42.8
45-49	1384	2	14	10.0	1094	2	18	18.1	298	2	67	66.4	28	0	0	37.7
50-54	610	0	0	12.2	302	1	33	15.1	74	0	0	63.2	4	0	0	34.3
55-61	130	0	0	15.2	60	0	0	12.6	10	0	0	60.8	2	0	0	30.3
UNKNOWN	26	0			8	1			28	0			12	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	5	4		15680	23	15		11376	66	58		3532	23	65	
05-14	54	0	0	76.5	208	2	96	74.5	504	5	99	97.4	390	3	77	85.8
15-19	358	2	56	24.0	1190	2	17	35.9	2090	20	96	72.9	1026	9	88	71.1
20-24	1834	1	5	8.8	4510	11	24	19.5	4830	20	41	58.7	1456	8	55	61.5
25-29	4400	1	2	3.6	5984	8	13	10.7	3044	19	62	46.9	558	3	54	52.8
30-34	3322	0	0	1.4	3136	0	0	5.9	790	2	25	37.6	98	0	0	45.2
35-39	1082	1	9	0.5	572	0	0	3.1	100	0	0	29.9	4	0	0	39.7
40-44	144	0	0	0.2	56	0	0	1.6	2	0	0	23.4	0	0	*****	******
45-49	16	0	0	0.1	8	0	0	0.8	2	0	0	17.5	0	0	*****	******
50-54	2	0	0	0.0	0	0	*****	******	0	0	*****	******	0	0	*****	******
55-61	2	0	0	0.0	0	0	*****	******	0	0	*****	******	0	0	*****	******
UNKNOWN	32	0			16	0			14	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	0.042	-0.201	-0.037	-0.131	-0.010	-0.049	-0.025	-0.033
SE(B)	0.057	0.079	0.026	0.039	0.020	0.025	0.045	0.043
A	-8.178	-1.843	-3.921	-2.653	-3.846	-3.371	-3.723	-3.665

TABLE 4-10-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	- M E N -									- W O M E N -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	31	16	13	36	18	15	1091	1124	1081	11	10	9	10	9	8
NONE	0	119	116	0	3	2	****	25	17	0	329	308	0	2	1	****	6	3
000-009	0	252	270	0	4	3	****	16	11	0	448	442	0	7	7	****	16	16
010-019	0	128	126	0	3	3	****	23	24	0	101	98	0	0	0	****	0	0
020-029	0	75	74	0	0	0	****	0	0	0	60	55	0	1	1	****	17	18
030-039	0	45	53	0	0	0	****	0	0	0	35	32	0	0	0	****	0	0
040-049	0	45	44	0	0	0	****	0	0	0	15	13	0	0	0	****	0	0
050-059	0	26	26	0	0	0	****	0	0	0	8	7	0	0	0	****	0	0
060-069	0	23	21	0	0	0	****	0	0	0	21	22	0	0	0	****	0	0
070-079	0	17	16	0	0	0	****	0	0	0	5	5	0	0	0	****	0	0
080-457	0	57	56	0	1	1	****	18	18	0	10	9	0	0	0	****	0	0
UNKNOWN	858	82	81	31	5	4				1091	92	90	11	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	54	51	41	77	70	58	870	891	925	56	37	28	64	42	30
NONE	0	133	121	0	14	9	****	105	74	0	369	361	0	24	16	****	65	44
000-009	0	201	197	0	11	11	****	55	56	0	309	337	0	11	10	****	36	30
010-019	0	77	76	0	5	5	****	65	66	0	53	54	0	0	0	****	0	0
020-029	0	55	60	0	4	4	****	73	67	0	34	38	0	1	1	****	29	26
030-039	0	62	59	0	3	1	****	48	17	0	30	34	0	0	0	****	0	0
040-049	0	34	33	0	2	1	****	59	30	0	16	17	0	1	1	****	63	59
050-059	0	27	23	0	4	3	****	148	130	0	4	3	0	0	0	****	0	0
060-069	0	23	30	0	1	1	****	43	33	0	7	10	0	0	0	****	0	0
070-079	0	6	7	0	1	1	****	167	143	0	1	1	0	0	0	****	0	0
080-457	0	47	40	0	3	2	****	64	50	0	7	7	0	0	0	****	0	0
UNKNOWN	705	65	65	54	3	3				870	61	63	56	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	27	31	33	82	69	62	426	592	701	46	54	49	108	91	70
NONE	0	99	115	0	10	12	****	101	104	0	294	342	0	32	29	****	109	85
000-009	0	135	154	0	11	10	****	81	65	0	178	213	0	17	15	****	96	70
010-019	0	36	51	0	3	3	****	83	59	0	19	32	0	2	2	****	105	63
020-029	0	21	27	0	1	0	****	48	0	0	20	25	0	1	1	****	50	40
030-039	0	33	39	0	0	1	****	0	26	0	19	20	0	0	0	****	0	0
040-049	0	19	24	0	2	2	****	105	83	0	5	7	0	0	0	****	0	0
050-059	0	10	13	0	0	0	****	0	0	0	2	4	0	0	0	****	0	0
060-069	0	7	7	0	0	0	****	0	0	0	0	0	0	0	0	****	****	****
070-079	0	11	11	0	0	0	****	0	0	0	2	1	0	0	0	****	0	0
080-457	0	34	43	0	1	2	****	29	47	0	5	5	0	0	0	****	0	0
UNKNOWN	330	45	47	27	3	3				426	48	52	46	2	2			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B*******		-0.013	-0.008
SE(B)******		0.014	0.013
A*******		-4.014	-4.326
WOMEN			
B*******		-0.039	-0.032
SE(B)******		0.042	0.040
A*******		-4.413	-4.504
AGE 45-54 AT EXAM			
MEN			
B*******		-0.000	-0.002
SE(B)******		0.004	0.005
A*******		-2.553	-2.735
WOMEN			
B*******		-0.040	-0.029
SE(B)******		0.025	0.024
A*******		-2.898	-3.252
AGE 55-64 AT EXAM			
MEN			
B*******		-0.009	-0.005
SE(B)******		0.007	0.006
A*******		-2.433	-2.618
WOMEN			
B*******		-0.063	-0.068
SE(B)******		0.033	0.035
A*******		-2.073	-2.364

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 4-10-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ANGINA PECTORIS UNCUMPLICATED
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	7	8		12138	33	27		8258	62	75		2328	13	56	
NONE	996	2	20	8.7	1754	3	17	21.6	1666	13	78	69.3	504	4	79	85.4
000-009	2250	2	9	8.7	2924	7	24	21.9	2064	18	87	69.2	638	5	78	80.1
010-019	1030	0	0	8.8	1252	1	8	22.9	740	3	41	68.8	210	2	95	62.3
020-029	590	0	0	8.9	812	3	37	23.9	476	3	63	68.5	164	0	0	47.5
030-039	434	0	0	8.9	866	4	46	24.8	572	3	52	68.2	180	0	0	39.2
040-049	366	0	0	9.0	588	1	17	26.0	414	3	72	67.9	104	2	192	29.3
050-059	156	1	64	9.1	256	2	78	27.0	170	0	0	67.6	68	0	0	23.0
060-069	262	0	0	9.2	486	0	0	28.0	322	1	31	67.3	88	0	0	18.7
070-079	140	0	0	9.2	242	0	0	29.4	144	0	0	66.9	44	0	0	13.7
080-457	544	1	18	9.7	954	4	42	37.3	588	5	85	65.5	196	0	0	5.7
UNKNOWN	2222	1			2004	8			1102	13			132	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	5	4		15680	23	15		11376	66	58		3532	23	65	
NONE	2518	2	8	6.8	4550	7	15	15.8	4830	34	70	65.1	1828	14	77	77.3
000-009	3744	2	5	6.4	5350	8	15	13.8	3386	18	53	61.2	966	7	72	71.6
010-019	850	1	12	5.2	1040	1	10	8.0	462	2	43	47.0	152	0	0	51.8
020-029	456	0	0	4.4	628	0	0	4.8	380	2	53	37.9	154	1	65	38.7
030-039	384	0	0	3.7	728	0	0	3.1	482	2	41	30.5	136	1	74	29.1
040-049	136	0	0	2.9	268	0	0	1.6	168	0	0	22.7	54	0	0	20.7
050-059	66	0	0	2.5	88	0	0	1.0	62	0	0	18.3	14	0	0	14.7
060-069	204	0	0	2.1	324	0	0	0.6	112	0	0	14.6	28	0	0	11.1
070-079	46	0	0	1.6	94	0	0	0.3	34	0	0	10.3	16	0	0	7.2
080-457	94	0	0	0.9	186	0	0	0.1	126	0	0	6.2	10	0	0	4.4
UNKNOWN	2748	0			2424	7			1334	8			174	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.001	-0.019	0.004	-0.052	-0.000	-0.025	-0.025	-0.032
SE(B)	0.010	0.041	0.004	0.038	0.004	0.015	0.017	0.029
A	-6.355	-6.604	-5.438	-5.754	-4.265	-4.328	-4.053	-4.154

TABLE 4-11-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	31	16	13	36	18	15	1091	1124	1081	11	10	9	10	9	8
NONE	242	242	255	10	4	3	41	17	12	531	522	494	7	4	3	13	8	6
UNDER 20	147	144	139	4	1	1	27	7	7	356	376	371	1	3	3	3	8	8
20	252	253	258	5	2	1	20	8	4	152	173	163	2	2	2	13	12	12
OVER 20	213	224	226	12	9	8	56	40	35	44	47	47	1	1	1	23	21	21
UNKNOWN	4	6	5	0	0	0				8	6	6	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	54	51	41	77	70	58	870	891	925	56	37	28	64	42	30
NONE	271	266	258	17	16	14	63	60	54	593	576	560	45	30	23	76	52	41
UNDER 20	111	114	112	11	9	6	99	79	54	178	205	234	8	6	4	45	29	17
20	169	185	176	13	12	10	77	65	57	70	78	97	3	1	1	43	13	10
OVER 20	147	157	158	13	14	11	88	89	70	23	29	31	0	0	0	0	0	0
UNKNOWN	7	8	7	0	0	0				6	3	3	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	27	31	33	82	69	62	426	592	701	46	54	49	108	91	70
NONE	160	214	231	15	15	12	94	70	52	338	454	518	38	45	40	112	99	77
UNDER 20	65	84	106	6	8	10	92	95	94	62	94	125	5	4	5	81	43	40
20	68	96	122	3	5	6	44	52	49	16	29	38	3	5	4	188	172	105
OVER 20	34	54	70	3	3	5	88	56	71	8	11	16	0	0	0	0	0	0
UNKNOWN	3	2	2	0	0	0				2	4	4	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.081	0.384	0.461
SE(B)	0.161	0.239	0.272
A	-3.406	-4.648	-5.029
WOMEN			
B	-0.006	0.284	0.399
SE(B)	0.358	0.339	0.348
A	-4.575	-4.958	-5.149
AGE 45-54 AT EXAM			
MEN			
B	0.102	0.114	0.080
SE(B)	0.119	0.123	0.135
A	-2.615	-2.735	-2.894
WOMEN			
B	-0.489	-0.720	-0.851
SE(B)	0.246	0.330	0.386
A	-2.501	-2.888	-3.153
AGE 55-64 AT EXAM			
MEN			
B	-0.154	-0.101	0.055
SE(B)	0.202	0.178	0.163
A	-2.276	-2.506	-2.770
WOMEN			
B	-0.122	-0.157	-0.241
SE(B)	0.270	0.241	0.250
A	-2.075	-2.246	-2.507

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 4-11-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	7	8		12138	33	27		8258	62	75		2328	13	56	
NONE	2800	1	4	3.0	4508	11	24	23.3	3970	32	81	78.7	1380	8	58	48.4
UNDER 20	1402	0	0	5.0	1738	4	23	26.0	1368	10	73	75.4	430	0	0	57.9
20	2444	3	12	8.6	2900	8	28	29.1	1614	10	62	72.4	288	3	104	69.3
OVER 20	2292	3	13	14.7	2928	10	34	32.5	1264	10	79	69.4	222	2	90	82.9
UNKNOWN	52	0			64	0			42	0			8	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	5	4		15680	23	15		11376	66	58		3532	23	65	
NONE	5176	2	4	4.5	8896	17	19	18.5	8122	53	65	65.0	2824	19	67	67.9
UNDER 20	3596	2	6	4.5	3718	4	11	11.9	1986	8	40	47.2	492	3	61	58.2
20	1776	1	6	4.4	2164	1	5	7.7	838	5	60	34.3	142	1	70	49.9
OVER 20	640	0	0	4.3	840	1	12	4.9	386	0	0	24.9	56	0	0	42.7
UNKNOWN	58	0			62	0			44	0			18	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.535	-0.013	0.112	-0.442	-0.042	-0.323	0.182	-0.156
SE(B)	0.372	0.498	0.144	0.298	0.114	0.202	0.252	0.386
A	-7.433	-7.009	-5.364	-5.594	-4.136	-4.330	-4.629	-4.285

TABLE 4-12-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: ALBUMIN IN URINE

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	31	16	13	36	18	15	1091	1124	1081	11	10	9	10	9	8
NO	816	857	865	29	16	13	36	19	15	988	1079	1031	10	9	9	10	8	9
POSSIBLE	2	0	3	0	0	0	0	****	0	7	1	5	0	0	0	0	0	0
DEFINITE	21	6	11	2	0	0	95	0	0	72	40	42	0	1	0	0	25	0
UNKNOWN	19	6	4	0	0	0				24	4	3	1	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	54	51	41	77	70	58	870	891	925	56	37	28	64	42	30
NO	671	718	702	52	50	41	77	70	58	794	854	880	49	32	26	62	37	30
POSSIBLE	1	0	0	0	0	0	0	****	****	7	4	6	1	0	0	143	0	0.
DEFINITE	24	10	9	2	1	0	83	100	0	59	31	38	5	4	2	85	129	53
UNKNOWN	9	2	0	0	0	0				10	2	1	1	1	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	27	31	33	82	69	62	426	592	701	46	54	49	108	91	70
NO	308	433	509	24	29	31	78	67	61	396	570	672	45	51	43	114	89	64
POSSIBLE	1	1	5	0	0	0	0	0	0	0	1	2	0	0	0	****	0	0
DEFINITE	14	13	15	2	2	2	143	154	133	22	17	24	1	3	5	45	176	208
UNKNOWN	7	3	2	1	0	0				8	4	3	0	0	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.510**********		
SE(B)	0.386 ******	******	
A	-3.303**********		
WOMEN			
B	*******	0.554*******	
SE(B)	******	0.534 ******	
A	*******	-4.779*******	
AGE 45-54 AT EXAM			
MEN			
B	0.029	0.198*******	
SE(B)	0.378	0.532 ******	
A	-2.478	-2.592*******	
WOMEN			
B	0.194	0.650	0.272
SE(B)	0.238	0.285	0.382
A	-2.716	-3.251	-3.496
AGE 55-64 AT EXAM			
MEN			
B	0.325	0.451	0.371
SE(B)	0.398	0.398	0.399
A	-2.473	-2.636	-2.743
WOMEN			
B	-0.495	0.378	0.661
SE(B)	0.518	0.327	0.264
A	-2.054	-2.321	-2.686

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 4-12-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: ALBUMIN IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	7	8		12138	33	27		8258	62	75		2328	13	56	
NO	8754	7	8	******	11852	32	27	26.9	7830	60	77	77.0	2186	13	59	******
POSSIBLE	20	0	0	******	42	0	0	34.7	74	1	135	55.8	16	0	0	******
DEFINITE	142	0	0	******	208	1	48	44.6	320	1	31	40.4	120	0	0	******
UNKNOWN	74	0			36	0			34	0			6	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	5	4		15680	23	15		11376	66	58		3532	23	65	
NO	10630	4	4	3.7	14958	19	13	12.6	10886	61	56	55.6	3364	22	65	65.1
POSSIBLE	90	0	0	8.9	134	0	0	29.5	112	0	0	86.3	32	0	0	68.9
DEFINITE	450	1	22	21.3	550	4	73	69.1	338	5	148	133.6	122	1	82	72.9
UNKNOWN	76	0			38	0			40	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	0.874	0.254	0.858	-0.326	0.446	*******	0.058
SE(B)	******	0.567	0.520	0.281	0.431	0.242	******	0.530
A	*******	-7.201	-5.218	-5.983	-4.158	-4.488	*******	-4.329

TABLE 4-13-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: SUGAR IN URINE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	31	16	13	36	18	15	1091	1124	1081	11	10	9	10	9	8	
																			MEN
NO	818	859	873	30	16	13	37	19	15	1055	1116	1073	10	10	9	9	9	8	B 0.425**********
POSSIBLE	13	2	0	0	0	0	0	0	****	7	0	0	0	0	0	0	****	****	SE(B) 0.584 ****** ******
DEFINITE	8	2	6	1	0	0	125	0	0	5	4	5	0	0	0	0	0	0	A -3.281**********
UNKNOWN	19	6	4	0	0	0				24	4	3	1	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	54	51	41	77	70	58	870	891	925	56	37	28	64	42	30	
																			MEN
NO	665	704	689	54	50	41	81	71	60	840	879	913	53	36	28	63	41	31	B******* -0.168*******
POSSIBLE	20	11	10	0	0	0	0	0	0	11	1	1	1	0	0	91	0	0	SE(B)****** 0.569 ******
DEFINITE	11	13	12	0	1	0	0	77	0	9	9	10	1	0	0	111	0	0	A******* -2.578*******
UNKNOWN	9	2	0	0	0	0				10	2	1	1	1	0				WOMEN
																			B 0.326**********
																			SE(B) 0.478 ****** ******
																			A -2.697**********
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	27	31	33	82	69	62	426	592	701	46	54	49	108	91	70	
																			MEN
NO	309	437	512	25	31	32	81	71	63	404	572	684	46	52	46	114	91	67	B -0.315******* 0.039
POSSIBLE	9	1	4	1	0	0	111	0	0	5	4	1	0	0	0	0	0	0	SE(B) 0.864 ****** 0.544
DEFINITE	5	9	13	0	0	1	0	0	77	9	12	13	0	2	2	0	167	154	A -2.420******* -2.712
UNKNOWN	7	3	2	1	0	0				8	4	3	0	0	1				WOMEN
																			B******* 0.276 0.448
																			SE(B)****** 0.402 0.393
																			A******* -2.307 -2.631

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 4-13-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: SUGAR IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	7	8		12138	33	27		8258	62	75		2328	13	56	
NO	8804	7	8	******	11802	33	28	******	7946	59	74	74.6	2214	12	54	56.3
POSSIBLE	48	0	0	******	114	0	0	******	54	1	185	86.9	14	1	714	52.7
DEFINITE	72	0	0	******	188	0	0	******	224	2	89	101.1	94	0	0	49.3
UNKNOWN	66	0			34	0			34	0			6	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	5	4		15680	23	15		11376	66	58		3532	23	65	
NO	11088	5	5	******	15466	22	14	14.2	11132	65	58	58.3	3456	23	67	******
POSSIBLE	20	0	0	******	46	0	0	31.6	50	0	0	56.3	10	0	0	******
DEFINITE	62	0	0	******	132	1	76	70.2	158	1	63	54.4	52	0	0	******
UNKNOWN	76	0			36	0			36	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	*******	0.806	0.155	-0.035	-0.067	*******
SE(B)	******	******	******	0.525	0.334	0.526	0.739	******
A	*******	*******	*******	-5.863	-4.190	-4.440	-4.475	*******

TABLE 4-14-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	31	16	13	36	18	15	1091	1124	1081	11	10	9	10	9	8
NO	765	770	806	24	13	11	31	17	14	951	1017	1011	10	9	8	11	9	8
POSSIBLE	26	34	41	2	1	0	77	29	0	55	39	36	1	0	0	18	0	0
DEFINITE	63	64	36	5	2	2	79	31	56	81	67	33	0	1	1	0	15	30
UNKNOWN	4	1	0	0	0	0				4	1	1	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	54	51	41	77	70	58	870	891	925	56	37	28	64	42	30
NO	561	634	629	43	45	37	77	71	59	620	673	747	37	27	21	60	40	28
POSSIBLE	22	39	41	3	2	3	136	51	73	59	76	100	1	2	1	17	26	10
DEFINITE	118	57	41	7	4	1	59	70	24	185	142	78	18	8	6	97	56	77
UNKNOWN	4	0	0	1	0	0				6	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	27	31	33	82	69	62	426	592	701	46	54	49	108	91	70
NO	241	349	436	20	27	31	83	77	71	250	356	455	26	30	26	104	84	57
POSSIBLE	15	41	45	0	3	2	0	73	44	34	76	107	5	7	9	147	92	84
DEFINITE	73	60	50	7	1	0	96	17	0	138	160	139	15	17	14	109	106	101
UNKNOWN	1	0	0	0	0	0				4	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.517	0.336	0.601
SE(B)	0.245	0.367	0.423
A	-3.416	-4.057	-4.326
WOMEN			
B	-0.509	0.164	0.557
SE(B)	0.805	0.562	0.576
A	-4.513	-4.741	-4.862
AGE 45-54 AT EXAM			
MEN			
B	-0.095	-0.046	-0.246
SE(B)	0.199	0.264	0.374
A	-2.471	-2.579	-2.757
WOMEN			
B	0.237	0.143	0.417
SE(B)	0.155	0.210	0.256
A	-2.804	-3.202	-3.617
AGE 55-64 AT EXAM			
MEN			
B	0.045	-0.582	-1.096
SE(B)	0.237	0.376	0.610
A	-2.437	-2.456	-2.555
WOMEN			
B	0.035	0.127	0.314
SE(B)	0.168	0.159	0.170
A	-2.127	-2.389	-2.789

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 4-14-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	7	8		12138	33	27		8258	62	75		2328	13	56	
NO	8168	6	7	7.8	10342	26	25	25.3	6422	47	73	74.5	1564	11	70	69.2
POSSIBLE	372	1	27	7.9	864	3	35	29.7	834	8	96	76.3	362	1	28	37.6
DEFINITE	440	0	0	8.0	924	3	32	34.8	1000	7	70	78.2	402	1	25	20.4
UNKNOWN	10	0			8	1			2	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	5	4		15680	23	15		11376	66	58		3532	23	65	
NO	10340	4	4	3.7	12730	18	14	13.6	7236	32	44	44.3	1734	9	52	48.2
POSSIBLE	398	0	0	8.0	1362	1	7	17.0	1822	12	66	65.1	650	3	46	66.0
DEFINITE	492	1	20	17.1	1576	4	25	21.2	2310	22	95	95.5	1148	11	96	90.2
UNKNOWN	16	0			12	0			8	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.016	0.765	0.160	0.222	0.025	0.389	-0.616	0.318
SE(B)	0.800	0.590	0.279	0.287	0.185	0.139	0.505	0.234
A	-6.464	-7.204	-5.279	-5.903	-4.192	-4.717	-4.267	-4.632

TABLE 4-15-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	31	16	13	36	18	15	1091	1124	1081	11	10	9	10	9	8	
																			MEN
NO	834	836	853	30	15	12	36	18	14	1081	1105	1062	11	10	9	10	9	8	B -0.122 0.211 0.527
POSSIBLE	15	25	25	1	1	1	67	40	40	7	15	15	0	0	0	0	0	0	SE(B) 0.833 0.863 0.884
DEFINITE	9	8	5	0	0	0	0	0	0	3	4	4	0	0	0	0	0	0	A -3.280 -3.988 -4.233
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	54	51	41	77	70	58	870	891	925	56	37	28	64	42	30	
																			MEN
NO	672	685	664	51	47	37	76	69	56	839	848	889	49	31	25	58	37	28	B 0.059 0.056 0.183
POSSIBLE	18	24	27	2	3	3	111	125	111	15	30	25	3	3	3	200	100	120	SE(B) 0.418 0.374 0.378
DEFINITE	15	21	20	1	1	1	67	48	50	16	13	11	4	3	0	250	231	0	A -2.494 -2.594 -2.813
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 0.914 1.042 0.538
																			SE(B) 0.274 0.310 0.491
																			A -2.770 -3.270 -3.507
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	27	31	33	82	69	62	426	592	701	46	54	49	108	91	70	
																			MEN
NO	300	405	477	22	29	31	73	72	65	410	537	629	42	45	37	102	84	59	B 0.632 -0.092 -0.161
POSSIBLE	13	24	27	1	0	0	77	0	0	6	32	41	2	2	5	333	63	122	SE(B) 0.304 0.423 0.417
DEFINITE	17	21	27	4	2	2	235	95	74	10	23	31	2	7	7	200	304	226	A -2.553 -2.591 -2.692
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 0.531 0.654 0.774
																			SE(B) 0.358 0.237 0.219
																			A -2.157 -2.424 -2.771

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 4-15-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	7	8		12138	33	27		8258	62	75		2328	13	56	
NO	8680	7	8	******	11390	28	25	24.8	7398	53	72	70.2	1994	13	65	******
POSSIBLE	246	0	0	******	502	3	60	48.2	508	3	59	99.7	182	0	0	******
DEFINITE	64	0	0	******	246	2	81	93.1	352	6	170	141.1	152	0	0	******
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	5	4		15680	23	15		11376	66	58		3532	23	65	
NO	11052	5	5	******	15156	20	13	13.0	10370	50	48	47.7	3066	16	52	54.1
POSSIBLE	138	0	0	******	382	1	26	40.1	636	6	94	111.4	278	4	144	102.0
DEFINITE	56	0	0	******	142	2	141	122.1	370	10	270	255.6	188	3	160	190.6
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	0.668	1.130	0.356	0.861	*******	0.644
SE(B)	******	******	0.317	0.372	0.219	0.173	******	0.284
A	*******	*******	-5.300	-5.948	-4.251	-4.643	*******	-4.516

TABLE 4-16-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	31	16	13	36	18	15	1091	1124	1081	11	10	9	10	9	8	
																			MEN
NO	840	851	859	30	16	13	36	19	15	1074	1109	1068	11	10	9	10	9	8	B 0.463**********
YES	18	18	24	1	0	0	56	0	0	17	15	13	0	0	0	0	0	0	SE(B) 1.046 ****** ******
																			A -3.296**********
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	54	51	41	77	70	58	870	891	925	56	37	28	64	42	30	
																			MEN
NO	684	709	687	52	47	38	76	66	55	849	858	894	54	36	27	64	42	30	B 0.246 1.198 0.892
YES	21	21	24	2	4	3	95	190	125	21	33	31	2	1	1	95	30	32	SE(B) 0.757 0.576 0.639
																			A -2.498 -2.645 -2.838
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 0.438 -0.338 0.068
																			SE(B) 0.757 1.030 1.035
																			A -2.689 -3.128 -3.469
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	27	31	33	82	69	62	426	592	701	46	54	49	108	91	70	
																			MEN
NO	320	431	501	27	30	31	84	70	62	414	561	653	45	54	43	109	96	66	B******* -0.298 0.080
YES	10	19	30	0	1	2	0	53	67	12	31	48	1	0	6	83	0	125	SE(B)****** 1.045 0.755
																			A******* -2.593 -2.719
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B -0.294******* 0.706
																			SE(B) 1.056 ****** 0.464
																			A -2.104******* -2.652

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 4-16-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	7	8		12138	33	27		8258	62	75		2328	13	56	
NO	8768	7	8	8.0	11624	31	27	26.7	7770	54	69	69.5	2142	12	56	56.0
YES	222	0	0	0.0	514	2	39	38.9	488	8	164	163.9	186	1	54	53.8
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	5	4		15680	23	15		11376	66	58		3532	23	65	
NO	11048	5	5	4.5	15160	23	15	15.2	10722	62	58	57.8	3260	19	58	58.3
YES	198	0	0	0.0	520	0	0	0.0	654	4	61	61.2	272	4	147	147.1
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.380	*******	0.878	0.057	-0.042	0.944
SE(B)	******	******	0.732	******	0.385	0.519	1.046	0.558
A	*******	*******	-5.228	*******	-4.262	-4.448	-4.480	-4.440

TABLE 4-17-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: DIABETES MELLITUS

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	31	16	13	36	18	15	1091	1124	1081	11	10	9	10	9	8	
																			MEN
NO	846	859	873	30	16	13	35	19	15	1083	1118	1075	11	10	9	10	9	8	B 0.905**********
YES	12	10	10	1	0	0	83	0	0	8	6	6	0	0	0	0	0	0	SE(B) 1.061 ****** ******
																			A -3.303**********
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	54	51	41	77	70	58	870	891	925	56	37	28	64	42	30	
																			MEN
NO	683	705	690	52	48	39	76	68	57	849	876	904	53	36	27	62	41	30	B 0.193 0.624 0.564
YES	22	25	21	2	3	2	91	120	95	21	15	21	3	1	1	143	67	48	SE(B) 0.756 0.633 0.761
																			A -2.496 -2.616 -2.815
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 0.918 0.511 0.485
																			SE(B) 0.640 1.049 1.043
																			A -2.709 -3.150 -3.481
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	27	31	33	82	69	62	426	592	701	46	54	49	108	91	70	
																			MEN
NO	316	432	510	25	30	31	79	69	61	414	567	673	46	52	46	111	92	68	B 0.663 -0.238 0.486
YES	14	18	21	2	1	2	143	56	95	12	25	28	0	2	3	0	80	107	SE(B) 0.792 1.046 0.766
																			A -2.454 -2.595 -2.738
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B******* -0.149 0.492
																			SE(B)****** 0.751 0.630
																			A******* -2.293 -2.612

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 4-17-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: DIABETES MELLITUS

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	7	8		12138	33	27		8258	62	75		2328	13	56	
NO	8896	7	8	7.9	11788	32	27	27.1	7866	56	71	71.2	2172	13	60	59.9
YES	94	0	0	0.0	350	1	29	28.6	392	6	153	153.1	156	0	0	0.0
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	5	4		15680	23	15		11376	66	58		3532	23	65	
NO	11168	5	4	4.5	15404	22	14	14.3	10974	61	56	55.6	3330	22	66	66.1
YES	78	0	0	0.0	276	1	36	36.2	402	5	124	124.4	202	1	50	49.5
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	0.051	0.935	0.782	0.819	*******	-0.292
SE(B)	******	******	1.018	1.026	0.436	0.471	******	1.028
A	*******	*******	-5.211	-5.855	-4.237	-4.488	*******	-4.313

TABLE 4-18-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: HYPERTENSION

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	31	16	13	36	18	15	1091	1124	1081	11	10	9	10	9	8
NO	379	499	593	8	8	4	21	16	7	707	872	870	6	6	7	8	7	8
BORDER	351	262	209	11	4	5	31	15	24	291	187	168	4	3	1	14	16	6
DEFINITE	128	108	81	12	4	4	94	37	49	93	65	43	1	1	1	11	15	23
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	54	51	41	77	70	58	870	891	925	56	37	28	64	42	30
NO	281	369	389	21	21	19	75	57	49	306	415	506	8	7	11	26	17	22
BORDER	262	236	213	21	20	14	80	85	66	357	298	256	20	15	9	56	50	35
DEFINITE	162	125	109	12	10	8	74	80	73	207	178	163	28	15	8	135	84	49
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	27	31	33	82	69	62	426	592	701	46	54	49	108	91	70
NO	119	201	273	8	10	19	67	50	70	101	160	252	9	14	12	89	88	48
BORDER	125	153	157	11	15	9	88	98	57	176	228	247	15	14	15	85	61	61
DEFINITE	86	96	101	8	6	5	93	63	50	149	204	202	22	26	22	148	127	109
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

	LOGISTIC PARAMETERS 1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.812	0.372	1.019
SE(B)	0.250	0.328	0.343
A	-4.020	-4.216	-4.899
WOMEN			
B	0.241	0.530	0.323
SE(B)	0.432	0.442	0.559
A	-4.705	-4.915	-4.871
AGE 45-54 AT EXAM			
MEN			
B	0.004	0.217	0.232
SE(B)	0.183	0.186	0.208
A	-2.493	-2.745	-2.948
WOMEN			
B	0.902	0.803	0.425
SE(B)	0.197	0.216	0.233
A	-3.679	-3.913	-3.787
AGE 55-64 AT EXAM			
MEN			
B	0.177	0.181	-0.187
SE(B)	0.256	0.235	0.243
A	-2.585	-2.751	-2.597
WOMEN			
B	0.342	0.272	0.465
SE(B)	0.214	0.187	0.189
A	-2.519	-2.610	-3.080

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 4-18-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: HYPERTENSION

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	7	8		12138	33	27		8258	62	75		2328	13	56	
NO	5330	5	9	7.4	6302	14	22	22.3	3786	17	45	49.2	932	5	54	53.7
BORDER	2636	0	0	8.2	3740	11	29	29.2	2646	24	91	78.3	886	5	56	56.3
DEFINITE	1024	2	20	9.0	2096	8	38	38.3	1826	21	115	124.0	510	3	59	59.0
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	5	4		15680	23	15		11376	66	58		3532	23	65	
NO	8552	2	2	2.7	8690	6	7	6.6	4098	11	27	29.0	840	1	12	27.1
BORDER	2036	2	10	7.2	4564	7	15	16.4	4114	24	58	54.1	1404	10	71	53.0
DEFINITE	658	1	15	19.3	2426	10	41	40.3	3164	31	98	100.7	1288	12	93	103.1
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.102	0.994	0.273	0.905	0.469	0.631	0.047	0.675
SE(B)	0.530	0.548	0.219	0.260	0.157	0.164	0.362	0.313
A	-6.519	-7.540	-5.409	-6.624	-4.611	-5.146	-4.523	-5.211

TABLE 4-19-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: GLUCOSE INTOLERANCE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	31	16	13	36	18	15	1091	1124	1081	11	10	9	10	9	8	
																			MEN
NO	820	850	864	30	16	13	37	19	15	1068	1108	1062	11	10	9	10	9	8	B -0.340**********
YES	38	19	19	1	0	0	26	0	0	23	16	19	0	0	0	0	0	0	SE(B) 1.030 ****** ******
																			A -3.271**********
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	54	51	41	77	70	58	870	891	925	56	37	28	64	42	30	
																			MEN
NO	657	680	672	52	48	39	79	71	58	830	866	892	52	36	27	63	42	30	B -0.682 -0.174 -0.131
YES	48	50	39	2	3	2	42	60	51	40	25	33	4	1	1	100	40	30	SE(B) 0.737 0.614 0.744
																			A -2.454 -2.578 -2.787
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 0.508 -0.040 0.001
																			SE(B) 0.546 1.035 1.034
																			A -2.705 -3.138 -3.467
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	27	31	33	82	69	62	426	592	701	46	54	49	108	91	70	
																			MEN
NO	304	423	492	24	30	31	79	71	63	395	552	653	45	50	45	114	91	69	B 0.420 -0.685 -0.218
YES	26	27	39	3	1	2	115	37	51	31	40	48	1	4	4	32	100	83	SE(B) 0.650 1.037 0.749
																			A -2.457 -2.573 -2.699
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B -1.350 0.109 0.206
																			SE(B) 1.029 0.548 0.545
																			A -2.051 -2.307 -2.604

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 4-19-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ANGINA PECTORIS UNCOMPLICATED
CHARACTERISTIC: GLUCOSE INTOLERANCE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8990	7	8		12138	33	27		8258	62	75		2328	13	56	
NO	8716	7	8	8.0	11458	31	27	27.1	7612	55	72	72.3	2098	12	57	57.2
YES	274	0	0	0.0	680	2	29	29.4	646	7	108	108.4	230	1	43	43.5
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11246	5	4		15680	23	15		11376	66	58		3532	23	65	
NO	11060	5	5	4.5	15182	22	14	14.5	10684	60	56	56.2	3202	22	69	68.7
YES	186	0	0	0.0	498	1	20	20.1	692	6	87	86.7	330	1	30	30.3
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.084	0.327	0.413	0.441	-0.277	-0.826
SE(B)	******	******	0.732	1.025	0.406	0.432	1.045	1.026
A	*******	*******	-5.214	-5.841	-4.222	-4.478	-4.459	-4.274

TABLE 5-1-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	15	12	10	17	14	11	1091	1124	1081	2	1	1	2	1	1
074-109	35	71	91	0	0	0	0	0	0	101	204	247	1	1	1	10	5	4
110-119	115	163	190	0	2	2	0	12	11	234	310	312	0	0	0	0	0	0
120-129	183	215	246	4	4	1	22	19	4	279	267	263	1	0	0	4	0	0
130-139	236	203	181	4	2	3	17	10	17	212	180	138	0	0	0	0	0	0
140-149	154	123	99	2	2	2	13	16	20	120	83	66	0	0	0	0	0	0
150-159	56	49	37	3	2	1	54	41	27	68	43	28	0	0	0	0	0	0
160-169	41	22	20	0	0	0	0	0	0	46	17	14	0	0	0	0	0	0
170-179	23	12	9	2	0	1	87	0	111	18	9	6	0	0	0	0	0	0
180-189	7	6	8	0	0	0	0	0	0	6	8	2	0	0	0	0	0	0
190-300	8	5	2	0	0	0	0	0	0	7	3	5	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	34	26	22	48	36	31	870	891	925	10	6	5	11	7	5
074-109	23	49	53	0	0	0	0	0	0	23	50	104	0	0	1	0	0	10
110-119	82	119	134	0	2	3	0	17	22	66	128	163	0	1	0	0	8	0
120-129	145	163	160	3	3	2	21	18	13	140	153	172	0	1	0	0	7	0
130-139	136	163	141	5	8	3	37	49	21	174	178	167	1	1	0	6	6	0
140-149	123	106	105	11	8	7	89	75	67	133	129	103	1	1	1	8	8	10
150-159	76	60	53	2	3	3	26	50	57	109	93	83	3	0	2	28	0	24
160-169	50	30	32	5	0	1	100	0	31	77	60	50	2	0	0	26	0	0
170-179	30	14	18	3	0	1	100	0	56	56	31	39	2	1	0	36	32	0
180-189	18	12	7	2	1	2	111	83	286	41	33	19	1	1	0	24	30	0
190-300	22	14	8	3	1	0	136	71	0	51	36	25	0	0	1	0	0	40
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	14	15	13	42	33	24	426	592	701	7	11	10	16	19	14
074-109	9	24	47	0	1	0	0	42	0	13	17	26	0	0	0	0	0	0
110-119	24	52	75	1	0	2	42	0	27	17	38	54	0	0	0	0	0	0
120-129	51	72	97	1	3	2	20	42	21	40	64	111	1	1	1	25	16	9
130-139	64	97	99	2	1	2	31	10	20	66	84	124	0	2	1	0	24	8
140-149	57	64	63	0	2	1	0	31	16	61	79	90	0	1	0	0	13	0
150-159	49	48	57	1	1	3	20	21	53	65	103	88	2	1	2	31	10	23
160-169	23	36	34	2	2	0	87	56	0	44	70	60	0	1	3	0	14	50
170-179	22	19	17	4	0	1	182	0	59	41	44	55	3	1	1	73	23	18
180-189	11	12	15	1	2	1	91	167	67	24	31	36	0	1	0	0	32	0
190-300	20	26	27	2	3	1	100	115	37	55	62	57	1	3	2	18	48	35
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.020	0.005	0.023
SE(B)	0.013	0.017	0.014
A	-6.826	-4.976	-7.500
WOMEN			
B	**********	**********	**********
SE(B)	******	******	******
A	**********	**********	**********
AGE 45-54 AT EXAM			
MEN			
B	0.028	0.016	0.028
SE(B)	0.007	0.009	0.010
A	-7.087	-5.417	-7.285
WOMEN			
B	0.013	0.008	0.019
SE(B)	0.009	0.013	0.013
A	-6.416	-6.140	-7.941
AGE 55-64 AT EXAM			
MEN			
B	0.018	0.020	0.012
SE(B)	0.008	0.008	0.009
A	-5.824	-6.289	-5.450
WOMEN			
B	0.011	0.018	0.018
SE(B)	0.011	0.010	0.009
A	-5.775	-6.816	-7.120

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 5-1-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	13	11		8172	24	29		2328	3	13	
074-109	714	0	0	******	734	0	0	7.6	490	1	20	12.7	120	0	0	******
110-119	1696	2	12	******	2010	0	0	8.6	1010	0	0	15.7	202	0	0	******
120-129	2260	1	4	******	2586	1	4	9.5	1496	1	7	18.8	326	1	31	******
130-139	1980	0	0	******	2598	6	23	10.6	1528	8	52	23.0	430	0	0	******
140-149	1130	0	0	******	1704	4	23	11.8	1234	4	32	27.8	394	0	0	******
150-159	510	0	0	******	1052	1	10	13.2	878	1	11	33.9	312	0	0	******
160-169	244	0	0	******	578	1	17	14.6	556	2	36	40.9	202	0	0	******
170-179	128	0	0	******	306	0	0	16.3	390	2	51	49.4	100	0	0	******
180-189	62	0	0	******	198	0	0	18.3	232	2	86	59.4	86	1	116	******
190-300	40	0	0	******	180	0	0	23.1	358	3	84	97.2	156	1	64	******
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
074-109	1988	0	0	******	1384	1	7	******	438	0	0	2.8	68	0	0	4.6
110-119	2882	0	0	******	2642	0	0	******	1028	0	0	3.1	200	0	0	5.7
120-129	2634	0	0	******	3032	1	3	******	1546	0	0	3.4	300	0	0	6.8
130-139	1728	0	0	******	2994	0	0	******	1894	0	0	3.8	504	1	20	8.4
140-149	862	0	0	******	1932	1	5	******	1652	2	12	4.2	576	1	17	10.1
150-159	436	0	0	******	1358	0	0	******	1508	2	13	4.6	514	0	0	12.2
160-169	196	0	0	******	770	0	0	******	1056	0	0	5.0	438	0	0	14.6
170-179	92	0	0	******	520	0	0	******	770	1	13	5.6	344	1	29	17.8
180-189	52	0	0	******	378	0	0	******	574	0	0	6.1	224	1	45	21.6
190-300	42	0	0	******	400	0	0	******	792	0	0	7.9	364	1	27	35.2
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	0.011	*******	0.020	0.010	*******	0.019
SE(B)	******	******	0.012	******	0.007	0.015	******	0.014
A	*******	*******	-7.633	*******	-8.008	-8.496	*******	-8.988

TABLE 5-2-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	- MEN -									- WOMEN -									LOGISTIC PARAMETERS		
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000					
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM		
TOTAL	858	869	883	15	12	10	17	14	11	1091	1124	1081	2	1	1	2	1	1			
020-069	44	79	92	0	0	0	0	0	0	103	205	229	0	1	0	0	5	0	MEN		
070-074	108	136	152	0	2	0	0	15	0	198	251	263	1	0	0	5	0	0	B	0.054	0.006	0.043
075-079	71	92	116	0	1	2	0	11	17	136	154	188	0	0	1	0	0	5	SE(B)	0.018	0.025	0.025
080-084	194	207	185	3	4	2	15	19	11	275	248	179	1	0	0	4	0	0	A	-8.875	-4.778	-8.142
085-089	112	101	126	3	3	1	27	30	8	102	106	97	0	0	0	0	0	0				
090-094	154	115	104	2	0	2	13	0	19	144	76	64	0	0	0	0	0	0	WOMEN			
095-099	62	65	43	1	1	1	16	15	23	51	34	29	0	0	0	0	0	0	B	**********		
100-104	63	32	35	4	1	2	63	31	57	50	27	19	0	0	0	0	0	0	SE(B)	******	******	******
105-109	11	21	15	0	0	0	0	0	0	11	13	5	0	0	0	0	0	0	A	**********		
110-160	39	21	15	2	0	0	51	0	0	21	10	8	0	0	0	0	0	0				
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0							
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM		
TOTAL	705	730	711	34	26	22	48	36	31	870	891	925	10	6	5	11	7	5			
020-069	20	59	65	0	1	0	0	17	0	21	63	99	0	0	1	0	0	10	MEN		
070-074	67	77	93	1	2	2	15	26	22	74	123	129	0	0	0	0	0	0	B	0.032	0.024	0.037
075-079	55	90	92	1	1	2	18	11	22	80	101	135	0	3	0	0	30	0	SE(B)	0.012	0.016	0.017
080-084	174	142	142	7	5	6	40	35	42	191	187	203	0	1	2	0	5	10	A	-5.889	-5.345	-6.625
085-089	74	101	99	3	3	1	41	30	10	100	112	120	0	0	1	0	0	8				
090-094	127	109	86	6	6	4	47	55	47	159	124	89	5	0	0	31	0	0	WOMEN			
095-099	56	57	59	7	3	2	125	53	34	69	55	59	0	0	1	0	0	17	B	0.052	0.009	0.002
100-104	69	53	31	4	4	1	58	75	32	77	51	38	0	1	0	0	20	0	SE(B)	0.018	0.028	0.035
105-109	21	16	18	2	1	4	95	63	222	26	21	15	2	0	0	77	0	0	A	-9.330	-5.811	-5.346
110-160	42	26	26	3	0	0	71	0	0	73	54	38	3	1	0	41	19	0				
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0							
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM		
TOTAL	330	450	531	14	15	13	42	33	24	426	592	701	7	11	10	16	19	14			
020-069	17	37	54	0	1	1	0	27	19	13	31	47	0	0	1	0	0	21	MEN		
070-074	31	63	82	3	3	3	97	48	37	35	68	81	1	1	2	29	15	25	B	0.045	0.030	0.009
075-079	40	61	61	1	0	0	25	0	0	27	55	77	1	2	2	37	36	26	SE(B)	0.017	0.016	0.019
080-084	70	84	113	0	2	4	0	24	35	73	107	147	0	1	0	0	9	0	A	-7.203	-5.981	-4.484
085-089	36	42	59	0	1	1	0	24	17	54	72	99	1	0	2	19	0	20				
090-094	53	67	60	4	1	1	75	15	17	80	87	97	2	2	1	25	23	10	WOMEN			
095-099	22	29	35	0	1	0	0	34	0	34	57	53	0	0	0	0	0	0	B	-0.011	0.034	0.005
100-104	26	29	20	2	2	1	77	69	50	49	49	40	2	2	0	41	41	0	SE(B)	0.027	0.019	0.025
105-109	7	7	16	0	1	0	0	143	0	12	20	24	0	0	1	0	0	42	A	-3.142	-7.105	-4.625
110-160	28	31	31	4	3	2	143	97	65	49	46	36	0	3	1	0	65	28				
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0							

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 5-2-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	13	11		8172	24	29		2328	3	13	
020-069	714	0	0	******	744	0	0	7.7	638	1	16	17.1	276	1	36	******
070-074	1282	0	0	******	1456	0	0	8.7	1110	5	45	20.2	374	0	0	******
075-079	956	1	10	******	1216	1	8	9.4	854	0	0	22.9	256	0	0	******
080-084	2188	2	9	******	2864	3	10	10.1	1822	4	22	25.7	502	0	0	******
085-089	1178	0	0	******	1626	5	31	11.0	896	3	33	29.1	258	0	0	******
090-094	1146	0	0	******	1694	2	12	11.8	1158	3	26	32.7	294	0	0	******
095-099	530	0	0	******	814	1	12	12.8	534	1	19	36.8	104	0	0	******
100-104	438	0	0	******	828	1	12	13.7	568	4	70	41.1	130	1	77	******
105-109	128	0	0	******	268	0	0	14.9	162	0	0	46.7	30	0	0	******
110-160	204	0	0	******	436	0	0	17.2	430	3	70	60.1	104	1	96	******
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
020-069	1876	0	0	******	1408	1	7	******	736	0	0	2.3	280	0	0	7.0
070-074	2354	0	0	******	2414	0	0	******	1346	0	0	2.8	408	0	0	8.7
075-079	1542	0	0	******	1752	1	6	******	1042	2	19	3.2	320	1	31	10.2
080-084	2388	0	0	******	3564	1	3	******	2452	0	0	3.7	800	1	13	11.6
085-089	1080	0	0	******	1852	0	0	******	1400	0	0	4.2	358	0	0	13.6
090-094	848	0	0	******	1956	0	0	******	1746	2	11	4.8	572	1	17	15.6
095-099	336	0	0	******	772	0	0	******	746	0	0	5.5	274	1	36	18.0
100-104	278	0	0	******	788	0	0	******	850	0	0	6.3	278	0	0	20.6
105-109	98	0	0	******	256	0	0	******	280	0	0	7.2	52	0	0	24.0
110-160	112	0	0	******	648	0	0	******	660	1	15	9.6	190	1	53	32.7
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	0.015	*******	0.024	0.027	*******	0.029
SE(B)	******	******	0.022	******	0.014	0.030	******	0.030
A	*******	*******	-7.462	*******	-7.225	-9.411	*******	-8.421

TABLE 5-3-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	15	12	10	17	14	11	1091	1124	1081	2	1	1	2	1	1	
096-189	140	171	173	1	1	1	7	6	6	210	333	330	0	0	0	0	0	0	MEN
190-204	94	99	115	2	1	1	21	10	9	133	206	187	0	0	0	0	0	0	B 0.013 0.013 0.013
205-219	57	136	141	0	1	1	0	7	7	85	151	155	0	0	0	0	0	0	SE(B) 0.004 0.004 0.004
220-234	108	143	131	2	1	0	19	7	0	98	135	131	0	0	0	0	0	0	A -6.884 -7.382 -7.692
235-249	50	93	99	0	1	2	0	11	20	50	90	96	0	1	1	0	11	10	
250-264	50	69	75	2	3	1	40	43	13	46	56	56	1	0	0	22	0	0	WOMEN
265-279	28	53	45	2	1	2	71	19	44	22	55	36	0	0	0	0	0	0	B**********
280-294	18	31	37	0	1	0	0	32	0	16	28	29	1	0	0	63	0	0	SE(B)****** ****** ******
295-309	12	20	23	0	1	0	0	50	0	6	17	25	0	0	0	0	0	0	A**********
310-696	17	28	31	2	1	2	118	36	65	3	15	14	0	0	0	0	0	0	
UNKNOWN	284	26	13	4	0	0				422	38	22	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	34	26	22	48	36	31	870	891	925	10	6	5	11	7	5	
096-189	76	95	89	3	1	1	39	11	11	73	101	107	0	2	0	0	20	0	MEN
190-204	59	95	84	2	4	4	34	42	48	41	89	96	0	0	1	0	0	10	B 0.000 0.003 0.006
205-219	50	110	128	6	6	5	120	55	39	55	114	114	0	0	0	0	0	0	SE(B) 0.005 0.005 0.005
220-234	65	124	115	3	3	0	46	24	0	83	143	136	1	0	0	12	0	0	A -3.033 -4.093 -4.830
235-249	47	105	89	1	4	4	21	38	45	41	109	133	0	0	0	0	0	0	
250-264	38	68	80	0	0	3	0	0	38	35	81	96	0	1	2	0	12	21	WOMEN
265-279	25	45	46	2	4	1	80	89	22	40	75	75	1	0	0	25	0	0	B******* 0.016 0.017
280-294	26	38	31	2	2	2	77	53	65	30	55	54	0	1	0	0	18	0	SE(B)****** 0.006 0.005
295-309	14	19	17	1	1	2	71	53	118	24	30	36	0	0	1	0	0	28	A******* -9.130 -9.796
310-696	10	19	21	0	0	0	0	0	0	38	65	66	0	2	1	0	31	15	
UNKNOWN	295	12	11	14	1	0				410	29	12	8	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	14	15	13	42	33	24	426	592	701	7	11	10	16	19	14	
096-189	50	80	95	2	2	5	40	25	53	13	27	35	0	0	0	0	0	0	MEN
190-204	32	59	51	0	2	2	0	34	39	19	41	46	0	0	0	0	0	0	B 0.000 0.002 -0.007
205-219	29	69	87	3	2	1	103	29	11	22	48	64	0	0	0	0	0	0	SE(B) 0.008 0.006 0.007
220-234	40	57	68	2	2	1	50	35	15	46	96	92	0	1	1	0	10	11	A -3.116 -3.835 -2.155
235-249	24	47	72	0	1	1	0	21	14	28	68	84	1	0	0	36	0	0	
250-264	18	54	72	3	3	0	167	56	0	38	73	97	1	0	2	26	0	21	WOMEN
265-279	15	26	27	0	1	1	0	38	37	28	62	88	1	0	2	36	0	23	B 0.007 0.018 0.013
280-294	10	21	25	0	2	1	0	95	40	20	45	51	2	1	0	100	22	0	SE(B) 0.009 0.006 0.007
295-309	9	18	19	0	0	1	0	0	53	19	37	52	0	6	2	0	162	38	A -5.867 -8.847 -7.799
310-696	6	12	13	0	0	0	0	0	0	27	75	82	0	2	2	0	27	24	
UNKNOWN	97	7	2	4	0	0				166	20	10	2	1	1				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 5-3-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	13	11		8172	24	29		2328	3	13	
096-189	1522	0	0	******	1356	0	0	5.2	980	1	10	22.8	282	1	35	******
190-204	994	0	0	******	1202	2	17	6.7	844	0	0	25.3	276	1	36	******
205-219	1192	0	0	******	1740	0	0	7.9	1088	6	55	26.9	306	0	0	******
220-234	1316	0	0	******	1772	4	23	9.2	1234	5	41	28.7	366	1	27	******
235-249	976	1	10	******	1506	2	13	10.8	1146	3	26	30.4	268	0	0	******
250-264	776	1	13	******	1346	1	7	12.5	1024	3	29	32.4	274	0	0	******
265-279	552	0	0	******	960	1	10	14.6	676	2	30	34.4	214	0	0	******
280-294	402	0	0	******	658	1	15	17.2	430	2	47	36.6	182	0	0	******
295-309	246	1	41	******	380	1	26	20.1	292	2	68	38.9	64	0	0	******
310-696	338	0	0	******	524	1	19	35.9	296	0	0	44.6	78	0	0	******
UNKNOWN	450	0			502	0			162	0			18	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
096-189	2920	0	0	******	1484	0	0	******	440	0	0	3.8	94	0	0	******
190-204	1782	0	0	******	1442	0	0	******	578	0	0	4.0	138	0	0	******
205-219	1486	0	0	******	1776	0	0	******	870	1	11	4.1	246	0	0	******
220-234	1352	0	0	******	2182	0	0	******	1376	0	0	4.3	396	0	0	******
235-249	980	0	0	******	1930	0	0	******	1332	1	8	4.4	444	1	23	******
250-264	630	0	0	******	1642	1	6	******	1498	0	0	4.5	474	0	0	******
265-279	440	0	0	******	1384	0	0	******	1414	1	7	4.6	504	0	0	******
280-294	302	0	0	******	1022	0	0	******	1116	1	9	4.8	368	1	27	******
295-309	160	0	0	******	670	1	15	******	816	1	12	4.9	278	1	36	******
310-1124	182	0	0	******	1180	1	8	******	1506	0	0	5.3	540	1	19	******
UNKNOWN	678	0			698	0			312	0			50	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.011	*******	0.004	0.002	*******	*******
SE(B)	******	******	0.004	******	0.005	0.010	******	******
A	*******	*******	-8.683	*******	-6.099	-7.507	*******	*******

TABLE 5-4-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	15	12	10	17	14	11	1091	1124	1081	2	1	1	2	1	1	
067-119	18	25	17	0	0	0	0	0	0	180	274	242	0	0	0	0	0	0	MEN
120-124	13	43	25	0	1	1	0	23	40	112	245	188	0	1	0	0	4	0	B -0.001 0.019 -0.013
125-129	24	60	29	0	0	1	0	0	34	98	161	170	0	0	0	0	0	0	SE(B) 0.026 0.024 0.028
130-134	61	125	92	1	1	1	16	8	11	86	194	209	0	0	1	0	0	5	A -3.855 -6.934 -2.645
135-139	93	125	108	3	1	1	32	8	9	94	106	120	2	0	0	21	0	0	
140-144	103	147	133	1	3	0	10	20	0	47	44	70	0	0	0	0	0	0	WOMEN
145-149	68	106	193	3	3	3	44	28	16	5	20	28	0	0	0	0	0	0	B**********
150-154	84	101	109	1	1	1	12	10	9	8	15	14	0	0	0	0	0	0	SE(B)****** ****** ******
155-159	43	55	98	0	1	2	0	18	20	2	8	6	0	0	0	0	0	0	A**********
160-216	50	50	62	1	1	0	20	20	0	5	3	1	0	0	0	0	0	0	
UNKNOWN	301	32	17	5	0	0				454	54	33	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	34	26	22	48	36	31	870	891	925	10	6	5	11	7	5	
067-119	11	30	15	0	1	0	0	33	0	77	173	150	0	3	2	0	17	13	MEN
120-124	21	44	28	4	3	3	190	68	107	87	192	158	1	3	1	11	16	6	B -0.039 -0.015 -0.025
125-129	20	41	28	2	1	0	100	24	0	65	130	144	0	0	0	0	0	0	SE(B) 0.017 0.017 0.020
130-134	43	104	92	5	5	5	116	48	54	75	176	184	0	0	0	0	0	0	A 2.481 -1.285 0.086
135-139	62	99	86	3	3	1	48	30	12	67	87	131	1	0	2	15	0	15	
140-144	78	119	134	2	5	4	26	42	30	34	48	63	0	0	0	0	0	0	WOMEN
145-149	49	101	125	1	1	4	20	10	32	15	23	48	0	0	0	0	0	0	B******* -0.085 -0.037
150-154	46	88	82	1	2	3	22	23	37	10	12	18	0	0	0	0	0	0	SE(B)****** 0.030 0.035
155-159	28	43	63	0	0	1	0	0	16	3	5	8	0	0	0	0	0	0	A******* 5.459 -0.535
160-216	33	43	45	2	3	0	61	70	0	1	3	4	0	0	0	0	0	0	
UNKNOWN	314	18	13	14	2	1				436	42	17	8	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	14	15	13	42	33	24	426	592	701	7	11	10	16	19	14	
067-119	22	31	23	0	1	2	0	32	87	42	111	96	1	1	0	24	9	0	MEN
120-124	10	22	22	0	1	0	0	45	0	44	105	109	0	0	2	0	0	18	B 0.040 -0.002 -0.027
125-129	12	32	32	0	0	0	0	0	0	39	92	100	1	1	1	26	11	10	SE(B) 0.025 0.022 0.023
130-134	31	72	47	2	4	0	65	56	0	50	128	173	0	3	1	0	23	6	A -8.759 -3.152 0.115
135-139	33	69	76	2	2	5	61	29	66	38	57	87	0	1	3	0	18	34	
140-144	47	85	94	1	3	2	21	35	21	23	44	59	1	3	1	43	68	17	WOMEN
145-149	16	39	93	1	2	3	63	51	32	7	13	37	0	1	0	0	77	0	B******* 0.053 0.046
150-154	26	47	60	1	0	0	38	0	0	3	9	15	0	0	0	0	0	0	SE(B)****** 0.029 0.031
155-159	9	25	47	1	0	1	111	0	21	2	5	8	0	0	1	0	0	125	A*******-10.949-10.428
160-216	17	14	33	2	1	0	118	71	0	1	1	1	0	0	0	0	0	0	
UNKNOWN	107	14	4	4	1	0				177	27	16	4	1	1				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 5-4-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	13	11		8172	24	29		2328	3	13	
067-119	136	0	0	******	148	0	0	21.2	218	0	0	44.0	48	0	0	******
120-124	206	1	49	******	264	1	38	18.2	164	2	122	39.4	16	0	0	******
125-129	272	0	0	******	286	0	0	16.6	230	0	0	37.5	44	0	0	******
130-134	686	0	0	******	818	1	12	15.0	620	3	48	35.2	98	0	0	******
135-139	886	0	0	******	1032	2	19	13.6	768	2	26	33.1	176	0	0	******
140-144	1288	0	0	******	1684	2	12	12.4	1278	3	23	31.4	322	0	0	******
145-149	1550	0	0	******	2076	2	10	11.3	1382	7	51	29.7	386	1	26	******
150-154	1284	0	0	******	1858	3	16	10.3	1210	2	17	28.1	494	1	20	******
155-159	980	1	10	******	1474	1	7	9.4	1042	4	38	26.6	342	1	29	******
160-216	948	1	11	******	1732	1	6	7.9	1054	1	9	23.9	374	0	0	******
UNKNOWN	528	0			574	0			206	0			28	0		

	WOMEN	EVENTS	RATE	SMOOTHED RATE	WOMEN	EVENTS	RATE	SMOOTHED RATE	WOMEN	EVENTS	RATE	SMOOTHED RATE	WOMEN	EVENTS	RATE	SMOOTHED RATE
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
067-119	1958	0	0	******	1644	1	6	******	938	0	0	3.6	182	0	0	******
120-124	1584	0	0	******	1720	0	0	******	1040	0	0	4.0	236	0	0	******
125-129	1550	0	0	******	1948	0	0	******	1294	1	8	4.2	346	0	0	******
130-134	2028	0	0	******	2756	0	0	******	2256	1	4	4.4	628	0	0	******
135-139	1444	0	0	******	2532	0	0	******	1854	0	0	4.7	620	0	0	******
140-144	814	0	0	******	1784	1	6	******	1560	3	19	5.0	632	1	16	******
145-149	428	0	0	******	1236	1	8	******	1014	0	0	5.3	414	1	24	******
150-154	188	0	0	******	588	0	0	******	512	0	0	5.6	228	1	44	******
155-159	78	0	0	******	200	0	0	******	260	0	0	5.9	124	0	0	******
160-216	34	0	0	******	156	0	0	******	150	0	0	6.5	66	1	152	******
UNKNOWN	806	0			846	0			380	0			56	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	-0.019	*******	-0.012	0.012	*******	*******
SE(B)	******	******	0.023	******	0.016	0.039	******	******
A	*******	*******	-3.267	*******	-3.424	-8.574	*******	*******

TABLE 5-5-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	15	12	10	17	14	11	1091	1124	1081	2	1	1	2	1	1	
062-159	251	235	126	4	3	1	16	13	8	342	441	216	1	0	0	3	0	0	MEN
160-179	83	138	72	1	1	1	12	7	14	102	193	127	0	0	0	0	0	0	B 0.006 0.004 0.009
180-199	99	155	113	2	3	0	20	19	0	92	151	132	0	1	0	0	7	0	SE(B) 0.004 0.005 0.005
200-219	45	133	124	0	1	1	0	8	8	59	150	185	0	0	1	0	0	5	A -4.956 -5.076 -6.484
220-239	32	62	121	1	1	1	31	16	8	39	73	148	1	0	0	26	0	0	
240-259	30	35	105	1	1	2	33	29	19	18	32	117	0	0	0	0	0	0	WOMEN
260-279	16	38	75	1	0	1	63	0	13	7	22	59	0	0	0	0	0	0	B**********
280-299	3	22	60	0	0	1	0	0	17	2	12	42	0	0	0	0	0	0	SE(B)****** ****** ******
300-319	4	13	32	1	1	0	250	77	0	1	4	16	0	0	0	0	0	0	A**********
320-968	6	11	38	0	1	2	0	91	53	0	6	9	0	0	0	****	0	0	
UNKNOWN	289	27	17	4	0	0				429	40	30	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	34	26	22	48	36	31	870	891	925	10	6	5	11	7	5	
062-159	154	207	110	7	5	3	45	24	27	156	201	131	1	2	1	6	10	8	MEN
160-179	64	116	78	2	4	1	31	34	13	66	113	87	0	0	0	0	0	0	B 0.003 0.003 0.005
180-199	45	128	88	2	5	2	44	39	23	72	140	84	0	0	0	0	0	0	SE(B) 0.004 0.004 0.004
200-219	48	114	106	3	5	5	63	44	47	71	166	171	0	0	0	0	0	0	A -3.487 -3.823 -4.539
220-239	20	62	87	1	2	3	50	32	34	31	94	93	0	0	0	0	0	0	
240-259	27	40	75	1	3	2	37	75	27	18	63	111	1	1	1	56	16	9	WOMEN
260-279	23	28	58	3	0	1	130	0	17	12	51	90	0	2	1	0	39	11	B******* 0.015 0.010
280-299	9	12	46	1	1	1	111	83	22	10	18	59	0	0	0	0	0	0	SE(B)****** 0.008 0.008
300-319	4	5	23	0	0	[illegible]	0	0	43	5	6	31	0	0	1	0	0	32	A******* -8.112 -7.487
320-968	5	4	26	0	0	3	0	0	115	11	7	44	0	1	1	0	143	23	
UNKNOWN	306	14	14	14	1	0				418	32	24	8	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	14	15	13	42	33	24	426	592	701	7	11	10	16	19	14	
062-159	86	114	72	5	6	3	58	53	42	69	75	56	1	0	1	14	0	18	MEN
160-179	48	75	57	1	3	2	21	40	35	37	77	42	2	1	0	54	13	0	B -0.005 -0.006 -0.003
180-199	25	70	64	1	2	1	40	29	16	36	105	83	1	1	1	28	10	12	SE(B) 0.007 0.006 0.005
200-219	29	75	72	1	0	1	34	0	14	38	122	108	1	1	0	26	8	0	A -2.235 -2.313 -3.119
220-239	14	48	81	1	2	4	71	42	49	28	75	95	0	1	1	0	13	11	
240-259	8	25	76	0	0	0	0	0	0	14	44	106	0	4	3	0	91	28	WOMEN
260-279	13	19	44	1	1	0	77	53	0	15	30	59	0	1	1	0	33	17	B -0.009 0.011 0.005
280-299	3	10	20	0	1	0	0	100	0	5	23	66	0	1	1	0	43	15	SE(B) 0.010 0.006 0.006
300-319	0	2	25	0	0	0	****	0	0	7	9	41	0	0	1	0	0	24	A -2.258 -6.486 -5.622
320-968	2	3	18	0	0	2	0	0	111	6	9	32	0	0	0	0	0	0	
UNKNOWN	102	9	2	4	0	0				171	23	13	2	1	1				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 5-5-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	13	11		8172	24	29		2328	3	13	
062-159	1320	0	0	******	1128	0	0	5.2	698	1	14	16.8	60	0	0	******
160-179	654	1	15	******	634	0	0	6.4	450	0	0	19.7	64	0	0	******
180-199	940	0	0	******	818	2	24	7.3	572	0	0	21.8	46	0	0	******
200-219	904	0	0	******	1012	1	10	8.4	698	1	14	24.2	182	0	0	******
220-239	868	1	12	******	1198	1	8	9.5	892	7	78	26.7	210	2	95	******
240-259	934	0	0	******	1574	3	19	10.8	1188	2	17	29.4	460	0	0	******
260-279	928	0	0	******	1568	1	6	12.2	1240	4	32	32.4	458	0	0	******
280-299	638	1	16	******	1346	2	15	13.7	946	4	42	35.6	344	0	0	******
300-319	494	0	0	******	922	0	0	15.7	646	1	15	39.3	272	1	37	******
320-968	594	0	0	******	1186	3	25	21.3	656	4	61	49.1	214	0	0	******
UNKNOWN	490	0			560	0			186	0			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
062-159	2230	0	0	******	1320	0	0	******	588	0	0	3.5	30	0	0	******
160-179	980	0	0	******	758	0	0	******	440	0	0	3.8	44	0	0	******
180-199	1106	0	0	******	870	0	0	******	596	1	17	3.9	58	0	0	******
200-219	1292	0	0	******	1552	0	0	******	948	0	0	4.1	158	0	0	******
220-239	1246	0	0	******	1520	0	0	******	916	0	0	4.3	188	0	0	******
240-259	1182	0	0	******	1902	1	5	******	1246	1	8	4.4	382	0	0	******
260-279	892	0	0	******	1998	0	0	******	1508	1	7	4.6	574	0	0	******
280-299	614	0	0	******	1668	1	6	******	1422	0	0	4.8	586	0	0	******
300-319	364	0	0	******	1358	0	0	******	1374	0	0	5.0	666	0	0	******
320-968	264	0	0	******	1666	1	6	******	1870	2	11	5.4	782	4	51	******
UNKNOWN	742	0			798	0			350	0			64	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.006	*******	0.005	0.002	*******	*******
SE(B)	******	******	0.004	******	0.003	0.008	******	******
A	*******	*******	-7.719	*******	-6.358	-7.535	*******	*******

TABLE 5-6-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	15	12	10	17	14	11	1091	1124	1081	2	1	1	2	1	1	
029-059	15	20	17	0	0	0	0	0	0	12	18	20	0	0	0	0	0	0	MEN
060-069	152	137	145	2	1	2	13	7	14	149	176	171	1	1	1	7	6	6	B 0.000 0.019 -0.034
070-079	212	313	318	6	3	5	28	10	16	287	396	390	0	0	0	0	0	0	SE(B) 0.016 0.013 0.029
080-089	181	211	220	3	4	2	17	19	9	236	301	305	0	0	0	0	0	0	A -3.916 -5.819 -1.827
090-099	71	105	111	2	3	1	28	29	9	91	128	110	0	0	0	0	0	0	
100-109	30	38	41	0	0	0	0	0	0	33	45	33	0	0	0	0	0	0	WOMEN
110-119	17	13	11	1	0	0	59	0	0	14	17	15	0	0	0	0	0	0	B**********
120-129	6	2	6	0	0	0	0	0	0	5	7	5	0	0	0	0	0	0	SE(B)****** ****** ******
130-139	5	5	3	0	1	0	0	200	0	2	1	4	0	0	0	0	0	0	A**********
140-524	4	5	4	0	0	0	0	0	0	4	5	7	1	0	0	250	0	0	
UNKNOWN	165	20	7	1	0	0				258	30	21	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	34	26	22	48	36	31	870	891	925	10	6	5	11	7	5	
029-059	11	15	13	1	2	1	91	133	77	5	10	13	0	0	0	0	0	0	MEN
060-069	100	98	100	5	4	4	50	41	40	86	121	121	0	0	2	0	0	17	B 0.010 0.002 0.006
070-079	150	245	220	6	8	7	40	33	32	168	255	327	1	2	1	6	8	3	SE(B) 0.004 0.006 0.006
080-089	127	179	208	6	2	2	47	11	10	192	281	262	2	2	1	10	7	4	A -3.765 -3.526 -4.036
090-099	79	102	90	2	5	2	25	49	22	87	112	113	1	0	0	11	0	0	
100-109	19	34	41	1	2	2	53	59	49	45	46	35	0	0	0	0	0	0	WOMEN
110-119	13	23	13	1	1	1	77	43	77	14	23	21	0	0	0	0	0	0	B 0.018 0.025 0.005
120-129	2	7	5	1	0	1	500	0	200	6	2	4	0	0	0	0	0	0	SE(B) 0.009 0.008 0.013
130-139	6	2	1	0	0	0	0	0	0	2	4	5	0	0	0	0	0	0	A -6.451 -7.288 -5.749
140-524	14	16	14	4	1	1	286	63	71	8	13	14	1	2	1	125	154	71	
UNKNOWN	184	9	6	7	1	1				257	24	10	5	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	14	15	13	42	33	24	426	592	701	7	11	10	16	19	14	
029-059	8	9	6	0	0	0	0	0	0	5	15	12	0	1	0	0	67	0	MEN
060-069	38	61	75	0	3	1	0	49	13	33	60	58	0	1	1	0	17	17	B 0.001 0.008 0.012
070-079	88	136	154	3	1	1	34	7	6	93	157	200	0	2	3	0	13	15	SE(B) 0.010 0.007 0.005
080-089	67	117	130	6	3	5	90	26	38	88	164	220	1	2	2	11	12	9	A -2.978 -4.098 -4.824
090-099	35	56	85	4	2	2	114	36	24	53	95	93	0	1	0	0	11	0	
100-109	12	20	30	1	0	1	83	0	33	24	46	51	1	1	0	42	22	0	WOMEN
110-119	8	17	18	0	3	2	0	176	111	4	9	18	0	0	0	0	0	0	B******* 0.008 0.012
120-129	3	7	13	0	2	0	0	286	0	6	12	17	0	1	1	0	83	59	SE(B)****** 0.006 0.004
130-139	2	2	4	0	0	0	0	0	0	4	1	3	0	0	0	0	0	0	A******* -4.804 -5.545
140-524	9	13	13	0	0	1	0	0	77	13	16	21	1	1	2	77	63	95	
UNKNOWN	60	12	3	0	1	0				103	17	8	4	1	1				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 5-6-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	13	11		8172	24	29		2328	3	13	
029-059	288	0	0	******	338	1	30	10.3	244	3	123	27.9	54	0	0	******
060-069	1704	0	0	******	2168	3	14	10.6	1318	2	15	28.6	414	1	24	******
070-079	2894	2	7	******	3892	4	10	10.9	2502	6	24	29.2	674	0	0	******
080-089	2048	0	0	******	2758	1	4	11.2	1976	8	40	29.8	522	0	0	******
090-099	906	1	11	******	1322	2	15	11.5	966	3	31	30.5	336	0	0	******
100-109	334	0	0	******	526	1	19	11.9	412	0	0	31.2	112	0	0	******
110-119	156	0	0	******	250	0	0	12.3	226	1	44	31.9	46	1	217	******
120-129	50	0	0	******	86	0	0	12.6	120	0	0	32.7	34	0	0	******
130-139	34	0	0	******	52	0	0	13.0	54	0	0	33.5	34	0	0	******
140-524	58	0	0	******	232	1	43	16.5	214	1	47	39.2	78	1	128	******
UNKNOWN	292	0			322	0			140	0			24	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
029-059	260	0	0	******	296	0	0	******	240	0	0	31.8	54	0	0	******
060-069	1862	0	0	******	2686	0	0	******	1452	4	28	11.5	414	1	24	******
070-079	3862	0	0	******	5186	0	0	******	3550	0	0	5.0	1118	0	0	******
080-089	2874	0	0	******	3890	2	5	******	3048	1	3	2.2	918	0	0	******
090-099	982	0	0	******	1598	0	0	******	1368	0	0	0.9	462	2	43	******
100-109	320	0	0	******	618	0	0	******	512	0	0	0.4	238	0	0	******
110-119	136	0	0	******	294	0	0	******	266	0	0	0.1	80	0	0	******
120-129	48	0	0	******	98	0	0	******	186	0	0	0.1	88	0	0	******
130-139	20	0	0	******	40	0	0	******	54	0	0	0.0	28	0	0	******
140-524	58	0	0	******	158	1	63	******	250	0	0	0.0	90	1	111	******
UNKNOWN	490	0			546	0			232	0			42	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.003	*******	0.002	-0.090	*******	*******
SE(B)	******	******	0.009	******	0.007	0.040	******	******
A	*******	*******	-6.355	*******	-5.307	-0.233	*******	*******

TABLE 5-7-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: URIC ACID (MG/LITER)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	15	12	10	17	14	11	1091	1124	1081	2	1	1	2	1	1
005-029	29	15	22	1	0	1	34	0	45	187	169	170	1	0	0	5	0	0
030-034	36	41	29	1	1	1	28	24	34	119	208	255	0	0	1	0	0	4
035-039	74	51	63	1	1	2	14	20	32	124	271	266	1	1	0	8	4	0
040-044	77	136	147	1	3	2	13	22	14	111	219	209	0	0	0	0	0	0
045-049	90	155	183	1	1	1	11	6	5	66	117	87	0	0	0	0	0	0
050-054	97	151	172	1	2	2	10	13	12	22	56	44	0	0	0	0	0	0
055-059	73	120	138	2	1	0	27	8	0	23	28	20	0	0	0	0	0	0
060-064	43	87	65	2	2	0	47	23	0	6	9	3	0	0	0	0	0	0
065-069	29	51	29	1	1	1	34	20	34	4	4	4	0	0	0	0	0	0
070-104	24	35	22	0	0	0	0	0	0	5	4	1	0	0	0	0	0	0
UNKNOWN	286	27	13	4	0	0				424	39	22	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	34	26	22	48	36	31	870	891	925	10	6	5	11	7	5
005-029	22	16	8	2	0	0	91	0	0	88	99	102	0	1	0	0	10	0
030-034	27	23	25	0	0	0	0	0	0	70	113	157	0	0	2	0	0	13
035-039	45	66	48	1	1	0	22	15	0	77	171	200	1	1	1	13	6	5
040-044	50	101	120	3	2	1	60	20	8	72	175	184	1	2	0	14	11	0
045-049	71	118	146	2	2	5	28	17	34	76	118	130	0	0	0	0	0	0
050-054	58	115	133	5	7	5	86	61	38	36	82	84	0	0	0	0	0	0
055-059	56	108	92	3	8	6	54	74	65	15	60	40	0	1	1	0	17	25
060-064	35	78	78	2	3	4	57	38	51	13	26	9	0	0	0	0	0	0
065-069	21	47	30	0	1	0	0	21	0	8	8	4	0	0	0	0	0	0
070-104	24	46	19	2	1	1	83	22	53	3	7	2	0	1	1	0	143	500
UNKNOWN	296	12	12	14	1	0				412	32	13	8	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	14	15	13	42	33	24	426	592	701	7	11	10	16	19	14
005-029	8	8	5	0	0	0	0	0	0	26	58	53	2	0	0	77	0	0
030-034	18	20	14	0	1	0	0	50	0	37	72	98	1	3	2	27	42	20
035-039	26	44	53	0	1	2	0	23	38	49	101	132	1	1	1	20	10	8
040-044	37	57	84	1	1	1	27	18	12	59	117	166	1	1	1	17	9	6
045-049	37	76	104	5	3	2	135	39	19	36	94	114	0	0	3	0	0	26
050-054	35	78	104	2	4	2	57	51	19	27	59	62	0	3	0	0	51	0
055-059	33	61	85	0	3	3	0	49	35	15	37	34	0	1	1	0	27	29
060-064	17	53	42	0	0	2	0	0	48	3	18	16	0	0	1	0	0	63
065-069	12	26	25	0	1	1	0	38	40	3	10	10	0	0	0	0	0	0
070-104	10	19	12	2	1	0	200	53	0	3	6	6	0	1	0	0	167	0
UNKNOWN	97	8	3	4	0	0				168	20	10	2	1	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.009	-0.010	-0.065
SE(B)	0.024	0.027	0.034
A	-4.380	-3.722	-1.437
WOMEN			
B	**********		
SE(B)	******	******	******
A	**********		
AGE 45-54 AT EXAM			
MEN			
B	0.009	0.023	0.044
SE(B)	0.018	0.016	0.020
A	-3.430	-4.563	-5.743
WOMEN			
B	*******	0.035	0.073
SE(B)	******	0.038	0.046
A	*******	-6.487	-8.324
AGE 55-64 AT EXAM			
MEN			
B	0.025	0.003	0.011
SE(B)	0.027	0.023	0.029
A	-4.336	-3.493	-4.235
WOMEN			
B	-0.117	0.042	0.028
SE(B)	0.051	0.028	0.033
A	0.285	-5.903	-5.527

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 5-7-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: URIC ACID (MG/LITER)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	13	11		8172	24	29		2328	3	13	
005-029	188	0	0	******	170	0	0	14.9	74	0	0	21.5	36	0	0	******
030-034	348	0	0	******	356	0	0	13.8	312	2	64	23.8	66	1	152	******
035-039	626	1	16	******	976	1	10	13.1	732	0	0	25.2	188	0	0	******
040-044	1384	0	0	******	1760	4	23	12.4	1328	2	15	27.0	438	1	23	******
045-049	1644	1	6	******	2340	1	4	11.8	1692	7	41	28.8	460	0	0	******
050-054	1566	1	6	******	2224	4	18	11.2	1396	4	29	30.6	388	1	26	******
055-059	1210	0	0	******	1630	2	12	10.5	1194	5	42	32.6	364	0	0	******
060-064	700	0	0	******	984	0	0	10.0	708	4	56	34.7	212	0	0	******
065-069	390	0	0	******	516	1	19	9.5	312	0	0	37.1	92	0	0	******
070-104	244	0	0	******	438	0	0	8.6	246	0	0	42.0	58	0	0	******
UNKNOWN	464	0			552	0			178	0			26	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
005-029	1820	0	0	******	2138	1	5	******	986	0	0	1.2	256	1	39	******
030-034	2290	0	0	******	2666	0	0	******	1564	1	6	1.9	440	1	23	******
035-039	2474	0	0	******	3348	1	3	******	2220	0	0	2.6	706	1	14	******
040-044	2006	0	0	******	3120	0	0	******	2560	0	0	3.8	756	0	0	******
045-049	886	0	0	******	1684	0	0	******	1744	1	6	5.4	650	1	15	******
050-054	382	0	0	******	956	0	0	******	976	2	20	7.7	342	0	0	******
055-059	224	0	0	******	416	0	0	******	462	0	0	10.8	192	0	0	******
060-064	66	0	0	******	198	0	0	******	220	1	45	15.1	62	0	0	******
065-069	32	0	0	******	98	0	0	******	132	0	0	21.7	36	0	0	******
070-104	26	0	0	******	28	1	357	******	58	0	0	38.2	24	0	0	******
UNKNOWN	706	0			758	0			336	0			68	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.011	*******	0.013	0.072	*******	*******
SE(B)	******	******	0.027	******	0.020	0.041	******	******
A	*******	*******	-5.534	*******	-5.770	-10.190	*******	*******

TABLE 5-8-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	15	12	10	17	14	11	1091	1124	1081	2	1	1	2	1	1
052-084	98	84	73	1	1	0	10	12	0	196	196	174	0	0	0	0	0	0
085-089	77	76	82	1	1	1	13	13	12	128	149	159	0	0	0	0	0	0
090-094	104	113	92	2	2	0	19	18	0	153	179	166	0	0	0	0	0	0
095-099	120	133	140	1	1	2	8	8	14	153	155	142	0	0	0	0	0	0
100-104	107	102	117	1	3	0	9	29	0	120	110	130	0	0	0	0	0	0
105-109	112	105	115	2	1	1	18	10	9	96	92	84	1	0	1	10	0	12
110-114	88	99	106	3	2	3	34	20	28	64	60	60	0	1	0	0	17	0
115-119	57	62	57	1	0	2	18	0	35	45	57	44	1	0	0	22	0	0
120-124	40	41	43	3	1	1	75	24	23	29	38	37	0	0	0	0	0	0
125-226	50	49	53	0	0	0	0	0	0	96	75	75	0	0	0	0	0	0
UNKNOWN	5	5	5	0	0	0				11	13	10	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	34	26	22	48	36	31	870	891	925	10	6	5	11	7	5
052-084	55	63	63	0	0	1	0	0	16	68	81	92	2	2	1	29	25	11
085-089	48	49	52	2	2	1	42	41	19	56	73	86	0	0	1	0	0	12
090-094	99	81	80	3	1	1	30	12	13	83	89	109	0	0	0	0	0	0
095-099	97	118	89	2	1	1	21	8	11	123	119	141	0	0	0	0	0	0
100-104	107	107	116	5	3	4	47	28	34	127	126	120	1	0	0	8	0	0
105-109	117	103	103	4	4	3	34	39	29	100	101	99	0	2	0	0	20	0
110-114	67	88	81	6	3	3	90	34	37	78	81	80	1	0	1	13	0	13
115-119	50	54	59	2	4	5	40	74	85	61	67	58	1	2	2	16	30	34
120-124	21	28	26	1	3	1	48	107	38	52	45	34	3	0	0	58	0	0
125-226	39	35	39	8	5	2	205	143	51	119	106	103	2	0	0	17	0	0
UNKNOWN	5	4	3	1	0	0				3	3	3	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	14	15	13	42	33	24	426	592	701	7	11	10	16	19	14
052-084	43	45	43	1	1	0	23	22	0	29	40	50	0	0	0	0	0	0
085-089	23	31	42	2	0	0	87	0	0	25	37	45	0	0	0	0	0	0
090-094	31	44	57	1	1	1	32	23	18	38	56	62	0	0	0	0	0	0
095-099	53	78	81	0	0	0	0	0	0	45	73	98	0	0	0	0	0	0
100-104	48	63	82	2	5	3	42	79	37	51	83	100	1	4	3	20	48	30
105-109	33	57	74	1	2	3	30	35	41	39	55	82	2	0	2	51	0	24
110-114	39	55	75	1	1	2	26	18	27	46	62	55	3	2	1	65	32	18
115-119	24	38	34	2	2	0	83	53	0	43	42	60	1	1	2	23	24	33
120-124	17	19	19	2	1	2	118	53	105	29	49	40	0	2	1	0	41	25
125-226	15	17	23	2	2	2	133	118	87	79	94	107	0	2	1	0	21	9
UNKNOWN	4	3	1	0	0	0				2	1	2	0	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.018	-0.008	0.024
SE(B)	0.018	0.022	0.021
A	-5.925	-3.428	-6.945
WOMEN			
B	**********	**********	**********
SE(B)	******	******	******
A	**********	**********	**********
AGE 45-54 AT EXAM			
MEN			
B	0.049	0.051	0.031
SE(B)	0.013	0.014	0.015
A	-8.262	-8.738	-6.754
WOMEN			
B	0.018	-0.016	-0.011
SE(B)	0.014	0.026	0.028
A	-6.476	-3.344	-4.117
AGE 55-64 AT EXAM			
MEN			
B	0.027	0.043	0.046
SE(B)	0.018	0.017	0.019
A	-5.954	-7.863	-8.543
WOMEN			
B	-0.000	0.017	0.013
SE(B)	0.019	0.013	0.015
A	-4.064	-5.922	-5.655

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 5-8-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	13	11		8172	24	29		2328	3	13	
052-084	750	0	0	******	950	1	11	9.4	666	3	45	12.3	254	0	0	******
085-089	718	1	14	******	912	0	0	9.6	552	2	36	16.0	190	0	0	******
090-094	940	0	0	******	1260	1	8	9.7	850	2	24	19.0	246	0	0	******
095-099	1394	0	0	******	1668	2	12	9.9	1296	0	0	22.4	336	1	30	******
100-104	1168	1	9	******	1802	3	17	10.1	1380	3	22	26.4	332	1	30	******
105-109	1136	0	0	******	1734	2	12	10.2	1142	1	9	31.1	296	0	0	******
110-114	1010	0	0	******	1378	0	0	10.4	918	3	33	36.6	306	0	0	******
115-119	632	1	16	******	880	1	11	10.5	586	3	51	43.1	160	1	63	******
120-124	424	0	0	******	550	2	36	10.7	420	3	71	51.0	84	0	0	******
125-226	542	0	0	******	750	0	0	11.1	332	4	120	77.1	122	0	0	******
UNKNOWN	50	0			62	1			30	0			2	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
052-084	1884	0	0	******	1670	1	6	******	912	0	0	3.2	394	0	0	12.5
085-089	1490	0	0	******	1654	0	0	******	862	1	12	3.5	226	0	0	13.0
090-094	1690	0	0	******	1908	0	0	******	1130	0	0	3.7	294	0	0	13.3
095-099	1524	0	0	******	2270	0	0	******	1578	0	0	3.9	450	0	0	13.6
100-104	1178	0	0	******	1910	0	0	******	1450	0	0	4.1	454	1	22	13.9
105-109	814	0	0	******	1556	0	0	******	1276	1	8	4.4	424	3	71	14.2
110-114	612	0	0	******	1188	1	8	******	1070	1	9	4.6	290	0	0	14.5
115-119	488	0	0	******	880	1	11	******	798	0	0	4.9	252	1	40	14.8
120-124	314	0	0	******	620	0	0	******	588	1	17	5.2	214	0	0	15.2
125-226	812	0	0	******	1658	0	0	******	1562	1	6	6.5	524	0	0	16.4
UNKNOWN	106	0			96	0			32	0			10	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.003	*******	0.034	0.011	*******	0.004
SE(B)	******	******	0.021	******	0.015	0.020	******	0.023
A	*******	*******	-6.530	*******	-8.664	-8.230	*******	-6.334

TABLE 5-9-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	15	12	10	17	14	11	1091	1124	1081	2	1	1	2	1	1
05-14	1	0	1	0	0	0	0	****	0	9	11	7	0	0	0	0	0	0
15-19	1	5	3	0	0	0	0	0	0	60	46	28	0	0	0	0	0	0
20-24	12	13	10	0	0	0	0	0	0	234	190	189	1	0	0	4	0	0
25-29	43	45	30	1	1	0	23	22	0	414	476	411	1	1	1	2	2	2
30-34	155	124	133	2	1	0	13	8	0	284	309	332	0	0	0	0	0	0
35-39	247	256	244	4	3	5	16	12	20	70	81	96	0	0	0	0	0	0
40-44	235	260	255	4	5	3	17	19	12	10	7	15	0	0	0	0	0	0
45-49	116	119	141	4	1	2	34	8	14	2	2	1	0	0	0	0	0	0
50-54	33	38	55	0	1	0	0	26	0	1	0	0	0	0	0	0	****	****
55-61	5	7	9	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
UNKNOWN	10	2	1	0	0	0				7	2	2	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	34	26	22	48	36	31	870	891	925	10	6	5	11	7	5
05-14	1	1	0	0	0	0	0	0	****	19	29	22	0	1	0	0	34	0
15-19	3	5	4	0	1	0	0	200	0	107	116	88	4	2	2	37	17	23
20-24	24	15	17	2	0	0	83	0	0	326	300	306	5	2	3	15	7	10
25-29	73	71	81	6	2	2	82	28	25	274	308	333	1	0	0	4	0	0
30-34	170	199	191	7	5	5	41	25	26	122	121	152	0	0	0	0	0	0
35-39	220	229	208	7	10	9	32	44	43	16	15	22	0	1	0	0	67	0
40-44	142	154	148	9	6	4	63	39	27	2	1	2	0	0	0	0	0	0
45-49	52	43	48	3	1	1	58	23	21	0	0	0	0	0	0	****	****	****
50-54	15	11	11	0	1	1	0	91	91	0	0	0	0	0	0	****	****	****
55-61	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
UNKNOWN	3	0	1	0	0	0				4	1	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	14	15	13	42	33	24	426	592	701	7	11	10	16	19	14
05-14	0	3	4	0	1	1	****	333	250	26	44	52	0	0	0	0	0	0
15-19	3	12	7	1	1	0	333	83	0	82	140	148	0	4	4	0	29	27
20-24	18	34	37	1	1	1	56	29	27	203	247	295	5	2	3	25	8	10
25-29	66	80	99	3	4	4	45	50	40	82	137	160	2	5	3	24	36	19
30-34	103	126	154	4	5	4	39	40	26	24	21	40	0	0	0	0	0	0
35-39	91	133	155	3	3	0	33	23	0	4	2	5	0	0	0	0	0	0
40-44	34	45	57	2	0	2	59	0	35	0	0	0	0	0	0	****	****	****
45-49	8	13	12	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
50-54	1	1	4	0	0	1	0	0	250	0	0	0	0	0	0	****	****	****
55-61	0	0	0	0	0	0	****	****	****	0	0	0	0	0	0	****	****	****
UNKNOWN	6	3	2	0	0	0				5	1	1	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.013	0.020	0.025
SE(B)	0.040	0.045	0.049
A	-4.525	-5.050	-5.472
WOMEN			
B	**********	**********	**********
SE(B)	******	******	******
A	**********	**********	**********
AGE 45-54 AT EXAM			
MEN			
B	-0.025	0.006	0.018
SE(B)	0.026	0.032	0.034
A	-2.099	-3.518	-4.078
WOMEN			
B	-0.122	-0.123	-0.167
SE(B)	0.063	0.074	0.083
A	-1.672	-2.210	-1.413
AGE 55-64 AT EXAM			
MEN			
B	-0.060	-0.091	-0.037
SE(B)	0.048	0.038	0.042
A	-1.163	-0.556	-2.478
WOMEN			
B	0.049	0.003	-0.018
SE(B)	0.077	0.061	0.062
A	-5.175	-4.030	-3.856

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 5-9-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	13	11		8172	24	29		2328	3	13	
05-14	6	0	0	******	10	0	0	13.0	26	0	0	45.1	14	0	0	******
15-19	28	0	0	******	72	1	139	12.4	112	2	179	40.2	76	0	0	******
20-24	98	0	0	******	290	0	0	12.0	462	1	22	36.7	256	0	0	******
25-29	334	1	30	******	1060	0	0	11.6	1440	7	49	33.2	570	1	18	******
30-34	1306	0	0	******	2698	1	4	11.2	2322	4	17	30.3	776	1	13	******
35-39	2374	1	4	******	3654	7	19	10.9	2322	5	22	27.5	456	1	22	******
40-44	2520	1	4	******	2726	3	11	10.5	1082	2	18	25.1	134	0	0	******
45-49	1352	0	0	******	1072	1	9	10.2	294	1	34	22.7	28	0	0	******
50-54	598	0	0	******	298	0	0	9.8	74	1	135	20.5	4	0	0	******
55-61	124	0	0	******	60	0	0	9.5	10	1	1000	19.0	2	0	0	******
UNKNOWN	24	0			6	0			28	0			12	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
05-14	52	0	0	******	206	0	0	******	502	0	0	21.1	390	1	26	40.4
15-19	352	0	0	******	1176	0	0	******	2074	3	14	7.6	1026	2	19	17.4
20-24	1764	0	0	******	4404	2	5	******	4764	2	4	3.7	1456	1	7	9.3
25-29	4284	0	0	******	5890	1	2	******	3020	0	0	1.8	558	1	18	4.8
30-34	3218	0	0	******	3092	0	0	******	786	0	0	0.8	98	0	0	2.4
35-39	1050	0	0	******	564	0	0	******	96	0	0	0.4	4	0	0	1.4
40-44	142	0	0	******	56	0	0	******	2	0	0	0.2	0	0	*****	******
45-49	16	0	0	******	8	0	0	******	2	0	0	0.1	0	0	*****	******
50-54	0	0	*****	******	0	0	*****	******	0	0	*****	******	0	0	*****	******
55-61	2	0	0	******	0	0	*****	******	0	0	*****	******	0	0	*****	******
UNKNOWN	32	0			14	0			12	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.007	*******	-0.020	-0.160	*******	-0.143
SE(B)	******	******	0.041	******	0.031	0.081	******	0.087
A	*******	*******	-5.875	*******	-4.459	-3.730	*******	-3.210

TABLE 5-10-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	15	12	10	17	14	11	1091	1124	1081	2	1	1	2	1	1	
NONE	0	119	116	0	2	1	****	17	9	0	329	308	0	0	0	****	0	0	MEN
000-009	0	252	270	0	0	0	****	0	0	0	448	442	0	1	1	****	2	2	B******* -0.003 -0.001
010-019	0	128	126	0	2	2	****	16	16	0	101	98	0	0	0	****	0	0	SE(B)****** 0.010 0.009
020-029	0	75	74	0	3	3	****	40	41	0	60	55	0	0	0	****	0	0	A******* -4.284 -4.455
030-039	0	45	53	0	2	2	****	44	38	0	35	32	0	0	0	****	0	0	
040-049	0	45	44	0	0	0	****	0	0	0	15	13	0	0	0	****	0	0	WOMEN
050-059	0	26	26	0	1	1	****	38	38	0	8	7	0	0	0	****	0	0	B**********
060-069	0	23	21	0	0	0	****	0	0	0	21	22	0	0	0	****	0	0	SE(B)****** ****** ******
070-079	0	17	16	0	0	0	****	0	0	0	5	5	0	0	0	****	0	0	A**********
080-457	0	57	56	0	0	0	****	0	0	0	10	9	0	0	0	****	0	0	
UNKNOWN	858	82	81	15	2	1				1091	92	90	2	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	34	26	22	48	36	31	870	891	925	10	6	5	11	7	5	
NONE	0	133	121	0	3	2	****	23	17	0	369	361	0	2	2	****	5	6	MEN
000-009	0	201	197	0	6	4	****	30	20	0	309	337	0	2	2	****	6	6	B******* -0.000 -0.002
010-019	0	77	76	0	2	2	****	26	26	0	53	54	0	0	0	****	0	0	SE(B)****** 0.006 0.008
020-029	0	55	60	0	1	2	****	18	33	0	34	38	0	0	0	****	0	0	A******* -3.413 -3.634
030-039	0	62	59	0	3	3	****	48	51	0	30	34	0	2	1	****	67	29	
040-049	0	34	33	0	2	0	****	59	0	0	16	17	0	0	0	****	0	0	WOMEN
050-059	0	27	23	0	2	1	****	74	43	0	4	3	0	0	0	****	0	0	B******* 0.017 0.006
060-069	0	23	30	0	2	2	****	87	67	0	7	10	0	0	0	****	0	0	SE(B)****** 0.018 0.026
070-079	0	6	7	0	0	0	****	0	0	0	1	1	0	0	0	****	0	0	A******* -5.069 -5.193
080-457	0	47	40	0	0	0	****	0	0	0	7	7	0	0	0	****	0	0	
UNKNOWN	705	65	65	34	5	6				870	61	63	10	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	14	15	13	42	33	24	426	592	701	7	11	10	16	19	14	
NONE	0	99	115	0	5	3	****	51	26	0	294	342	0	5	3	****	17	9	MEN
000-009	0	135	154	0	5	5	****	37	32	0	178	213	0	4	4	****	22	19	B******* -0.006 -0.001
010-019	0	36	51	0	1	1	****	28	20	0	19	32	0	0	0	****	0	0	SE(B)****** 0.009 0.008
020-029	0	21	27	0	0	0	****	0	0	0	20	25	0	1	1	****	50	40	A******* -3.206 -3.560
030-039	0	33	39	0	1	1	****	30	26	0	19	20	0	0	1	****	0	50	
040-049	0	19	24	0	0	1	****	0	42	0	5	7	0	0	0	****	0	0	WOMEN
050-059	0	10	13	0	0	0	****	0	0	0	2	4	0	0	0	****	0	0	B******* -0.022 0.005
060-069	0	7	7	0	1	1	****	143	143	0	0	0	0	0	0	****	****	****	SE(B)****** 0.042 0.018
070-079	0	11	11	0	0	0	****	0	0	0	2	1	0	0	0	****	0	0	A******* -3.896 -4.294
080-457	0	34	43	0	1	1	****	29	23	0	5	5	0	0	0	****	0	0	
UNKNOWN	330	45	47	14	1	0				426	48	52	7	1	1				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 5-10-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	13	11		8172	24	29		2328	3	13	
NONE	996	1	10	******	1754	2	11	8.6	1665	6	36	31.3	504	1	20	******
000-009	2250	1	4	******	2924	4	14	8.7	2064	3	15	31.1	638	1	16	******
010-019	1030	0	0	******	1252	0	0	9.1	740	4	54	30.1	210	0	0	******
020-029	590	0	0	******	812	1	12	9.5	476	1	21	29.2	164	0	0	******
030-039	434	0	0	******	866	0	0	9.9	572	2	35	28.6	180	1	56	******
040-049	366	0	0	******	588	0	0	10.4	414	1	24	27.6	104	0	0	******
050-059	156	1	64	******	256	0	0	10.8	170	0	0	26.9	68	0	0	******
060-069	262	0	0	******	486	1	21	11.2	322	3	93	26.2	88	0	0	******
070-079	140	0	0	******	242	0	0	11.8	144	1	69	25.3	44	0	0	******
080-457	544	0	0	******	954	2	21	15.0	588	0	0	22.3	196	0	0	******
UNKNOWN	1996	0			1812	3			1016	3			132	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
NONE	2518	0	0	******	4550	1	2	******	4830	2	4	4.1	1328	2	11	******
000-009	3744	0	0	******	5350	2	4	******	3386	1	3	4.3	966	2	21	******
010-019	850	0	0	******	1040	0	0	******	462	0	0	5.2	152	0	0	******
020-029	456	0	0	******	628	0	0	******	380	0	0	6.0	154	0	0	******
030-039	394	0	0	******	728	0	0	******	482	1	21	7.1	136	0	0	******
040-049	136	0	0	******	268	0	0	******	168	0	0	8.7	54	0	0	******
050-059	66	0	0	******	88	0	0	******	62	0	0	10.2	14	0	0	******
060-069	204	0	0	******	324	0	0	******	112	1	89	12.0	28	0	0	******
070-079	46	0	0	******	94	0	0	******	34	0	0	15.4	16	0	0	******
080-457	94	0	0	******	186	0	0	******	126	0	0	30.3	10	0	0	******
UNKNOWN	2414	0			2154	0			1216	0			174	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.004	*******	-0.003	0.018	*******	*******
SE(B)	******	******	0.006	******	0.007	0.011	******	******
A	*******	*******	-6.361	*******	-5.066	-7.111	*******	*******

TABLE 5-11-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	15	12	10	17	14	11	1091	1124	1081	2	1	1	2	1	1	
																			MEN
NONE	242	242	255	0	0	0	0	0	0	531	522	494	0	0	0	0	0	0	B 0.859 0.738 0.829
UNDER 20	147	144	139	2	2	1	14	14	7	356	376	371	1	1	1	3	3	3	SE(B) 0.311 0.327 0.376
20	252	253	258	5	4	4	20	16	16	152	173	163	0	0	0	0	0	0	A -5.737 -5.709 -6.123
OVER 20	213	224	226	8	6	5	38	27	22	44	47	47	1	0	0	23	0	0	
																			WOMEN
UNKNOWN	4	6	5	0	0	0				8	6	6	0	0	0				B 1.342**********
																			SE(B) 0.746 ****** ******
																			A -8.091**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	34	26	22	48	36	31	870	891	925	10	6	5	11	7	5	
																			MEN
NONE	271	266	258	7	4	4	26	15	16	593	576	560	8	4	4	13	7	7	B 0.278 0.336 0.292
UNDER 20	111	114	112	10	7	6	90	61	54	178	205	234	0	0	0	0	0	0	SE(B) 0.149 0.174 0.186
20	169	185	176	5	6	4	30	32	23	70	78	97	2	1	0	29	13	0	A -3.375 -3.805 -3.879
OVER 20	147	157	158	12	9	8	82	57	51	23	29	31	0	1	1	0	34	32	
																			WOMEN
UNKNOWN	7	8	7	0	0	0				6	3	3	0	0	0				B -0.090 0.420 0.052
																			SE(B) 0.446 0.418 0.538
																			A -4.409 -5.266 -5.242
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	14	15	13	42	33	24	426	592	701	7	11	10	16	19	14	
																			MEN
NONE	160	214	231	6	6	4	38	28	17	338	454	518	6	10	8	18	22	15	B 0.002 0.240 0.267
UNDER 20	65	84	106	4	3	4	62	36	38	62	94	125	0	0	0	0	0	0	SE(B) 0.259 0.231 0.247
20	68	96	122	3	2	1	44	21	8	16	29	38	0	0	1	0	0	26	A -3.109 -3.630 -4.005
OVER 20	34	54	70	1	4	4	29	74	57	8	11	16	0	0	0	0	0	0	
																			WOMEN
UNKNOWN	3	2	2	0	0	0				2	4	4	1	1	1				B********** -0.368
																			SE(B)****** ****** 0.630
																			A********** -4.232

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 5-11-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	13	11		8172	24	29		2328	3	13	
NONE	2708	0	0	0.8	4440	0	0	3.8	3920	8	20	24.4	1380	0	0	5.6
UNDER 20	1376	1	7	1.7	1710	3	18	6.9	1360	7	51	28.9	430	2	47	11.5
20	2378	0	0	3.6	2868	5	17	12.6	1592	4	25	34.1	288	0	0	23.4
OVER 20	2250	2	9	7.5	2864	5	17	22.8	1260	5	40	40.3	222	1	45	47.4
UNKNOWN	52	0			64	0			40	0			8	0		

	WOMEN	EVENTS	RATE	SMOOTHED RATE	WOMEN	EVENTS	RATE	SMOOTHED RATE	WOMEN	EVENTS	RATE	SMOOTHED RATE	WOMEN	EVENTS	RATE	SMOOTHED RATE
	AGED 35-44 AT EXAM				AGED 45-54 AT EXAM				AGED 55-64 AT EXAM				AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
NONE	5010	0	0	******	8710	1	1	0.7	8024	4	5	4.5	2824	4	14	******
UNDER 20	3482	0	0	******	3664	0	0	1.7	1966	0	0	4.3	492	0	0	******
20	1734	0	0	******	2144	1	5	4.2	838	1	12	4.1	142	0	0	******
OVER 20	628	0	0	******	830	1	12	10.3	386	0	0	3.9	56	0	0	******
UNKNOWN	58	0			62	0			44	0			18	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	0.735	*******	0.600	0.895	0.168	-0.048	0.712	*******
SE(B)	0.635	******	0.266	0.527	0.173	0.597	0.482	******
A	-8.708	*******	-7.185	-8.870	-5.317	-7.001	-6.785	*******

TABLE 5-12-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: ALBUMIN IN URINE

	- MEN -									- WOMEN -											
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																					
TOTAL	858	869	883	15	12	10	17	14	11	1091	1124	1081	2	1	1	2	1	1			
NO	816	857	865	12	11	10	15	13	12	988	1079	1031	2	1	1	2	1	1			
POSSIBLE	2	0	3	0	0	0	0	****	0	7	1	5	0	0	0	0	0	0			
DEFINITE	21	6	11	1	0	0	48	0	0	72	40	42	0	0	0	0	0	0			
UNKNOWN	19	6	4	2	1	0				24	4	3	0	0	0						
AGE 45-54 AT EXAM																					
TOTAL	705	730	711	34	26	22	48	36	31	870	891	925	10	6	5	11	7	5			
NO	671	718	702	32	26	21	48	36	30	794	854	880	9	5	5	11	6	6			
POSSIBLE	1	0	0	0	0	0	0	****	****	7	4	6	0	0	0	0	0	0			
DEFINITE	24	10	9	2	0	1	83	0	111	59	31	38	1	1	0	17	32	0			
UNKNOWN	9	2	0	0	0	0				10	2	1	0	0	0						
AGE 55-64 AT EXAM																					
TOTAL	330	450	531	14	15	13	42	33	24	426	592	701	7	11	10	16	19	14			
NO	308	433	509	13	14	12	42	32	24	396	570	672	6	11	10	15	19	15			
POSSIBLE	1	1	5	0	0	1	0	0	200	0	1	2	0	0	0	****	0	0			
DEFINITE	14	13	15	1	1	0	71	77	0	22	17	24	1	0	0	45	0	0			
UNKNOWN	7	3	2	0	0	0				8	4	3	0	0	0						

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.592	**********	
SE(B)	0.536	******	******
A	-4.207	**********	
WOMEN			
B	**********		
SE(B)	******	******	******
A	**********		
AGE 45-54 AT EXAM			
MEN			
B	0.290	*******	0.700
SE(B)	0.382	******	0.542
A	-2.995	*******	-3.479
WOMEN			
B	0.182	0.855	*******
SE(B)	0.538	0.560	******
A	-4.474	-5.140	*******
AGE 55-64 AT EXAM			
MEN			
B	0.265	0.444	0.086
SE(B)	0.541	0.541	0.758
A	-3.124	-3.401	-3.687
WOMEN			
B	0.565	**********	
SE(B)	0.552	******	******
A	-4.174	**********	

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 5-12-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: ALBUMIN IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	13	11		8172	24	29		2328	3	13	
NO	8532	3	4	******	11668	13	11	******	7752	23	30	29.5	2186	2	9	11.4
POSSIBLE	20	0	0	******	42	0	0	******	74	0	0	29.0	16	1	625	21.4
DEFINITE	138	0	0	******	200	0	0	******	314	1	32	28.4	120	0	0	40.2
UNKNOWN	74	0			36	0			32	0			6	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
NO	10332	0	0	******	14710	3	2	******	10774	4	4	4.1	3364	4	12	11.7
POSSIBLE	88	0	0	******	132	0	0	******	112	1	89	7.6	32	0	0	30.4
DEFINITE	420	0	0	******	530	0	0	******	332	0	0	13.8	122	1	82	78.0
UNKNOWN	72	0			38	0			40	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	*******	*******	-0.019	0.603	0.635	0.953
SE(B)	******	******	******	******	0.527	0.764	0.785	0.571
A	*******	*******	*******	*******	-5.126	-7.096	-6.085	-6.051

TABLE 5-13-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: SUGAR IN URINE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	15	12	10	17	14	11	1091	1124	1081	2	1	1	2	1	1	
																			MEN
NO	818	859	873	12	11	10	15	13	11	1055	1116	1073	1	1	1	1	1	1	B 0.526**********
POSSIBLE	13	2	0	1	0	0	77	0	****	7	0	0	0	0	0	0	****	****	SE(B) 0.807 ****** ******
DEFINITE	8	2	6	0	0	0	0	0	0	5	4	5	1	0	0	200	0	0	A -4.179**********
UNKNOWN	19	6	4	2	1	0				24	4	3	0	0	0				WOMEN
																			B 2.781**********
																			SE(B) 0.767 ****** ******
																			A -7.012**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	34	26	22	48	36	31	870	891	925	10	6	5	11	7	5	
																			MEN
NO	665	704	689	32	25	21	48	36	30	840	879	913	10	6	5	12	7	5	B 0.273 0.261 0.401
POSSIBLE	20	11	10	1	0	0	50	0	0	11	1	1	0	0	0	0	0	0	SE(B) 0.490 0.562 0.562
DEFINITE	11	13	12	1	1	1	91	77	83	9	9	10	0	0	0	0	0	0	A -2.989 -3.312 -3.471
UNKNOWN	9	2	0	0	0	0				10	2	1	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	14	15	13	42	33	24	426	592	701	7	11	10	16	19	14	
																			MEN
NO	309	437	512	12	14	12	39	32	23	404	572	684	6	10	9	15	17	13	B 0.638 0.649 0.580
POSSIBLE	9	1	4	2	0	0	222	0	0	5	4	1	0	0	0	0	0	0	SE(B) 0.610 0.551 0.551
DEFINITE	5	9	13	0	1	1	0	111	77	9	12	13	1	1	1	111	83	77	A -3.153 -3.411 -3.737
UNKNOWN	7	3	2	0	0	0				8	4	3	0	0	0				WOMEN
																			B 1.009 0.777 0.908
																			SE(B) 0.582 0.555 0.549
																			A -4.211 -4.036 -4.319

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 5-13-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: SUGAR IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	13	11		8172	24	29		2328	3	13	
NO	8586	3	3	******	11618	12	10	10.2	7870	23	29	29.1	2214	1	5	4.4
POSSIBLE	44	0	0	******	106	0	0	22.0	52	0	0	34.9	14	0	0	31.0
DEFINITE	68	0	0	******	188	1	53	47.0	218	1	46	41.7	94	2	213	210.5
UNKNOWN	66	0			34	0			32	0			6	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
NO	10762	0	0	******	15202	2	1	1.3	11016	5	5	******	3456	4	12	11.5
POSSIBLE	16	0	0	******	44	0	0	10.0	48	0	0	******	10	0	0	47.0
DEFINITE	62	0	0	******	128	1	78	76.4	158	0	0	******	52	1	192	187.8
UNKNOWN	72	0			36	0			36	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.766	2.044	0.181	*******	1.953	1.414
SE(B)	******	******	0.540	0.621	0.525	******	0.622	0.572
A	*******	*******	-6.190	-8.254	-5.140	*******	-7.030	-6.072

TABLE 5-14-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	15	12	10	17	14	11	1091	1124	1081	2	1	1	2	1	1	
																			MEN
NO	765	770	806	11	10	8	14	13	10	951	1017	1011	1	1	1	1	1	1	B 0.634 0.378 0.580
POSSIBLE	26	34	41	1	0	1	38	0	24	55	39	36	1	0	0	18	0	0	SE(B) 0.322 0.412 0.485
DEFINITE	63	64	36	3	2	1	48	31	28	81	67	33	0	0	0	0	0	0	A -4.214 -4.363 -4.586
UNKNOWN	4	1	0	0	0	0				4	1	1	0	0	0				WOMEN
																			B 0.627**********
																			SE(B) 0.864 ****** ******
																			A -6.503**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	34	26	22	48	36	31	870	891	925	10	6	5	11	7	5	
																			MEN
NO	561	634	629	26	22	17	46	35	27	620	673	747	5	4	3	8	6	4	B 0.126 0.171 0.533
POSSIBLE	22	39	41	1	1	2	45	26	49	59	76	100	2	1	0	34	13	0	SE(B) 0.218 0.315 0.308
DEFINITE	118	57	41	7	3	3	59	53	73	185	142	78	3	1	2	16	7	26	A -3.027 -3.339 -3.579
UNKNOWN	4	0	0	0	0	0				6	0	0	0	0	0				WOMEN
																			B 0.389 0.159 0.893
																			SE(B) 0.339 0.506 0.506
																			A -4.696 -5.065 -5.665
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	14	15	13	42	33	24	426	592	701	7	11	10	16	19	14	
																			MEN
NO	241	349	436	9	9	8	37	26	18	250	356	455	3	3	2	12	8	4	B 0.301 0.506 0.637
POSSIBLE	15	41	45	0	2	2	0	49	44	34	76	107	1	0	1	29	0	9	SE(B) 0.295 0.302 0.333
DEFINITE	73	60	50	5	4	3	68	67	60	138	160	139	3	8	7	22	50	50	A -3.292 -3.617 -3.953
UNKNOWN	1	0	0	0	0	0				4	0	0	0	0	0				WOMEN
																			B 0.302 0.992 1.289
																			SE(B) 0.399 0.371 0.411
																			A -4.343 -5.020 -5.553

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 5-14-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	13	11		8172	24	29		2328	3	13	
NO	7978	3	4	******	10198	9	9	9.2	6360	14	22	20.2	1564	2	13	14.8
POSSIBLE	358	0	0	******	856	2	23	15.5	828	1	12	40.2	362	1	28	10.6
DEFINITE	418	0	0	******	886	2	23	26.4	982	9	92	79.8	402	0	0	7.7
UNKNOWN	10	0			6	0			2	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
NO	10064	0	0	******	12536	2	2	1.4	7168	2	3	2.8	1734	1	6	6.2
POSSIBLE	368	0	0	******	1346	0	0	2.8	1816	1	6	5.1	650	1	15	12.9
DEFINITE	466	0	0	******	1522	1	7	5.3	2266	2	9	9.0	1148	3	26	26.8
UNKNOWN	14	0			6	0			8	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.530	0.654	0.693	0.576	-0.329	0.732
SE(B)	******	******	0.357	0.661	0.227	0.495	0.884	0.546
A	*******	*******	-6.301	-8.148	-5.508	-7.471	-5.823	-6.687

TABLE 5-15-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	15	12	10	17	14	11	1091	1124	1081	2	1	1	2	1	1	
																			MEN
NO	834	836	853	14	12	10	17	14	12	1081	1105	1062	2	1	1	2	1	1	B 0.827**********
POSSIBLE	15	25	25	0	0	0	0	0	0	7	15	15	0	0	0	0	0	0	SE(B) 0.581 ****** ******
DEFINITE	9	8	5	1	0	0	111	0	0	3	4	4	0	0	0	0	0	0	A -4.091**********
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	34	26	22	48	36	31	870	891	925	10	6	5	11	7	5	
																			MEN
NO	672	685	664	27	20	16	40	29	24	839	848	889	10	6	5	12	7	6	B 1.225 1.036 1.159
POSSIBLE	18	24	27	2	2	2	111	83	74	15	30	25	0	0	0	0	0	0	SE(B) 0.280 0.288 0.297
DEFINITE	15	21	20	5	4	4	333	190	200	16	13	11	0	0	0	0	0	0	A -3.178 -3.501 -3.700
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	14	15	13	42	33	24	426	592	701	7	11	10	16	19	14	
																			MEN
NO	300	405	477	9	8	8	30	20	17	410	537	629	6	8	8	15	15	13	B 1.248 1.377 1.251
POSSIBLE	13	24	27	0	2	0	0	83	0	6	32	41	1	0	0	167	0	0	SE(B) 0.324 0.308 0.320
DEFINITE	17	21	27	5	5	5	294	238	185	10	23	31	0	3	2	0	130	65	A -3.546 -3.892 -4.164
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 0.510 1.058 0.720
																			SE(B) 0.782 0.380 0.439
																			A -4.141 -4.273 -4.417

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 5-15-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	13	11		8172	24	29		2328	3	13	
NO	8462	3	4	******	11202	12	11	10.4	7316	12	16	16.2	1994	1	5	6.5
POSSIBLE	242	0	0	******	500	0	0	16.0	508	3	59	65.1	182	1	55	23.5
DEFINITE	60	0	0	******	244	1	41	24.6	348	9	259	254.2	152	1	66	84.6
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
NO	10720	0	0	******	14892	3	2	******	10258	5	5	******	3066	3	10	10.3
POSSIBLE	136	0	0	******	378	0	0	******	632	0	0	******	278	1	36	25.1
DEFINITE	56	0	0	******	140	0	0	******	368	0	0	******	188	1	53	61.2
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.434	*******	1.401	*******	1.295	0.897
SE(B)	******	******	0.589	******	0.225	******	0.626	0.537
A	*******	*******	-6.178	*******	-5.729	*******	-6.652	-6.185

TABLE 5-16-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	15	12	10	17	14	11	1091	1124	1081	2	1	1	2	1	1	
																			MEN
NO	840	851	859	15	12	10	18	14	12	1074	1109	1068	1	1	1	1	1	1	B**********
YES	18	18	24	0	0	0	0	0	0	17	15	13	1	0	0	59	0	0	SE(B)****** ****** ******
																			A**********
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 4.206**********
																			SE(B) 1.436 ****** ******
																			A -6.978**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	34	26	22	48	36	31	870	891	925	10	6	5	11	7	5	
																			MEN
NO	684	709	687	31	23	21	45	32	31	849	858	894	8	6	5	9	7	6	B 1.256 1.604 0.321
YES	21	21	24	3	3	1	143	143	42	21	33	31	2	0	0	95	0	0	SE(B) 0.650 0.659 1.045
																			A -3.048 -3.395 -3.457
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 2.404**********
																			SE(B) 0.824 ****** ******
																			A -4.655**********
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	14	15	13	42	33	24	426	592	701	7	11	10	16	19	14	
																			MEN
NO	320	431	501	14	14	11	44	32	22	414	561	653	6	8	7	14	14	11	B******* 0.504 1.157
YES	10	19	30	0	1	2	0	53	67	12	31	48	1	3	3	83	97	63	SE(B)****** 1.063 0.793
																			A******* -3.394 -3.797
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 1.822 2.002 1.817
																			SE(B) 1.123 0.704 0.707
																			A -4.220 -4.236 -4.525

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 5-16-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	13	11		8172	24	29		2328	3	13	
NO	8552	3	4	3.5	11436	12	10	10.5	7684	21	27	27.3	2142	1	5	4.7
YES	212	0	0	0.0	510	1	20	19.6	488	3	61	61.5	186	2	108	107.5
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
NO	10720	0	0	0.0	14896	2	1	1.3	10606	4	4	3.8	3260	3	9	9.2
YES	192	0	0	0.0	514	1	19	19.5	652	1	15	15.3	272	2	74	73.5
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.627	2.677	0.818	1.405	3.158	2.091
SE(B)	******	******	1.043	1.226	0.621	1.119	1.230	0.917
A	*******	*******	-6.164	-8.222	-5.204	-7.189	-6.975	-6.296

TABLE 5-17-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: DIABETES MELLITUS

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	15	12	10	17	14	11	1091	1124	1081	2	1	1	2	1	1	
																			MEN
NO	846	859	873	15	12	10	18	14	11	1083	1118	1075	1	1	1	1	1	1	B**********
YES	12	10	10	0	0	0	0	0	0	8	6	6	1	0	0	125	0	0	SE(B)****** ****** ******
																			A**********
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 5.041**********
																			SE(B) 1.464 ****** ******
																			A -6.987**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	34	26	22	48	36	31	870	891	925	10	6	5	11	7	5	
																			MEN
NO	683	705	690	31	24	20	45	34	29	849	876	904	8	4	3	9	5	3	B 1.200 0.903 1.260
YES	22	25	21	3	2	2	136	80	95	21	15	21	2	2	2	95	133	95	SE(B) 0.648 0.766 0.777
																			A -3.046 -3.346 -3.512
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 2.404 3.513 3.454
																			SE(B) 0.824 0.910 0.942
																			A -4.655 -5.384 -5.705
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	14	15	13	42	33	24	426	592	701	7	11	10	16	19	14	
																			MEN
NO	316	432	510	14	14	12	44	32	24	414	567	673	6	9	8	14	16	12	B******* 0.563 0.730
YES	14	18	21	0	1	1	0	56	48	12	25	28	1	2	2	83	80	71	SE(B)****** 1.064 1.066
																			A******* -3.396 -3.726
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 1.822 1.685 1.855
																			SE(B) 1.123 0.810 0.815
																			A -4.220 -4.127 -4.420

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 5-17-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: DIABETES MELLITUS

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	13	11		8172	24	29		2328	3	13	
NO	8674	3	3	3.5	11602	12	10	10.3	7784	23	30	29.5	2172	2	9	9.2
YES	90	0	0	0.0	344	1	29	29.1	388	1	26	25.8	156	1	64	64.1
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
NO	10838	0	0	0.0	15144	2	1	1.3	10856	5	5	4.6	3330	4	12	12.0
YES	74	0	0	0.0	266	1	38	37.6	402	0	0	0.0	202	1	50	49.5
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	1.037	3.356	-0.137	*******	1.951	1.424
SE(B)	******	******	1.044	1.228	1.024	******	1.230	1.123
A	*******	*******	-6.179	-8.239	-5.125	*******	-6.295	-6.029

TABLE 5-18-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HYPERTENSION

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	15	12	10	17	14	11	1091	1124	1081	2	1	1	2	1	1	
																			MEN
NO	379	499	593	5	6	3	13	12	5	707	872	870	2	1	1	3	1	1	B 0.431 0.224 1.014
BORDER	351	262	209	6	4	4	17	15	19	291	187	168	0	0	0	0	0	0	SE(B) 0.351 0.389 0.390
DEFINITE	128	108	81	4	2	3	31	19	37	93	65	43	0	0	0	0	0	0	A -4.381 -4.404 -5.163
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	34	26	22	48	36	31	870	891	925	10	6	5	11	7	5	
																			MEN
NO	281	369	389	3	6	7	11	16	18	306	415	506	0	2	1	0	5	2	B 0.755 0.502 0.589
BORDER	262	236	213	19	15	9	73	64	42	357	298	256	6	2	3	17	7	12	SE(B) 0.234 0.250 0.269
DEFINITE	162	125	109	12	5	6	74	40	55	207	178	163	4	2	1	19	11	6	A -3.766 -3.703 -3.897
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 0.936 0.426 0.570
																			SE(B) 0.458 0.510 0.540
																			A -5.529 -5.362 -5.676
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	14	15	13	42	33	24	426	592	701	7	11	10	16	19	14	
																			MEN
NO	119	201	273	3	4	5	25	20	18	101	160	252	1	1	1	10	6	4	B 0.954 0.491 0.276
BORDER	125	153	157	2	6	5	16	39	32	176	228	247	2	4	5	11	18	20	SE(B) 0.391 0.329 0.346
DEFINITE	86	96	101	9	5	3	105	52	30	149	204	202	4	6	4	27	29	20	A -4.225 -3.814 -3.894
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 0.608 0.698 0.600
																			SE(B) 0.558 0.442 0.418
																			A -4.866 -4.853 -4.905

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 5-18-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HYPERTENSION

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	13	11		8172	24	29		2328	3	13	
NO	5204	2	4	4.2	6210	3	5	7.7	3742	6	16	18.7	932	1	11	5.0
BORDER	2568	1	4	2.6	3664	8	22	11.9	2618	10	38	30.5	886	0	0	12.0
DEFINITE	992	0	0	1.6	2072	2	10	18.4	1812	8	44	49.7	510	2	39	28.8
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
NO	8326	0	0	******	8578	2	2	2.5	4070	0	0	2.8	840	0	0	3.7
BORDER	1960	0	0	******	4456	1	2	1.4	4064	4	10	4.3	1404	2	14	9.8
DEFINITE	626	0	0	******	2376	0	0	0.8	3124	1	3	6.8	1288	3	23	25.7
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	-0.462	*******	0.433	-0.591	0.491	0.451	0.876	0.969
SE(B)	1.003	******	0.343	0.975	0.252	0.574	0.791	0.741
A	-7.091	*******	-6.468	-7.581	-5.584	-7.503	-6.904	-7.202

TABLE 5-19-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: GLUCOSE INTOLERANCE

	- MEN -									- WOMEN -										LOGISTIC PARAMETERS		
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000						
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3		1	2	3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM			
TOTAL	858	869	883	15	12	10	17	14	11	1091	1124	1081	2	1	1	2	1	1				
																			MEN			
NO	820	850	864	14	11	10	17	13	12	1068	1108	1062	1	1	1	1	1	1	B	0.442	1.444*******	
YES	38	19	19	1	1	0	26	53	0	23	16	19	1	0	0	43	0	0	SE(B)	1.049	1.071 ******	
																			A	-4.053	-4.334*******	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0							
																			WOMEN			
																			B	3.882**********		
																			SE(B)	1.431 ****** ******		
																			A	-6.973**********		
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM			
TOTAL	705	730	711	34	26	22	48	36	31	870	891	925	10	6	5	11	7	5				
																			MEN			
NO	657	680	672	29	24	19	44	35	28	830	866	892	8	4	3	10	5	3	B	0.923	0.130	1.052
YES	48	50	39	5	2	3	104	40	77	40	25	33	2	2	2	50	80	61	SE(B)	0.509	0.751	0.644
																			A	-3.075	-3.308	-3.537
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0							
																			WOMEN			
																			B	1.688	2.931	2.951
																			SE(B)	0.808	0.891	0.931
																			A	-4.632	-5.373	-5.691
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM			
TOTAL	330	450	531	14	15	13	42	33	24	426	592	701	7	11	10	16	19	14				
																			MEN			
NO	304	423	492	12	13	12	39	31	24	395	552	653	6	9	7	15	16	11	B	0.707	0.925	0.051
YES	26	27	39	2	2	1	77	74	26	31	40	48	1	2	3	32	50	63	SE(B)	0.793	0.787	1.054
																			A	-3.192	-3.451	-3.689
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0							
																			WOMEN			
																			B	0.771	1.155	1.817
																			SE(B)	1.097	0.800	0.707
																			A	-4.172	-4.100	-4.525

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 5-19-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: GLUCOSE INTOLERANCE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	13	11		8172	24	29		2328	3	13	
NO	8504	3	4	3.5	11284	12	11	10.6	7536	23	31	30.5	2098	1	5	4.8
YES	260	0	0	0.0	662	1	15	15.1	636	1	16	15.7	230	2	87	87.0
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
NO	10734	0	0	0.0	14926	2	1	1.3	10578	5	5	4.7	3202	4	12	12.5
YES	178	0	0	0.0	484	1	21	20.7	680	0	0	0.0	330	1	30	30.3
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	0.352	2.740	-0.666	*******	2.920	0.890
SE(B)	******	******	1.042	1.226	1.023	******	1.229	1.121
A	*******	*******	-6.151	-8.224	-5.093	*******	-6.955	-5.990

TABLE 6-1-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	11	9	6	13	10	7	1091	1124	1081	2	1	1	2	1	1
074-109	35	71	91	0	0	0	0	0	0	101	204	247	1	1	1	10	5	4
110-119	115	163	190	0	1	1	0	6	5	234	310	312	0	0	0	0	0	0
120-129	183	215	246	4	4	1	22	19	4	279	267	263	1	0	0	4	0	0
130-139	236	203	181	3	2	3	13	10	17	212	180	138	0	0	0	0	0	0
140-149	154	123	99	2	2	1	13	16	10	120	83	66	0	0	0	0	0	0
150-159	56	49	37	1	0	0	18	0	0	68	43	28	0	0	0	0	0	0
160-169	41	22	20	0	0	0	0	0	0	46	17	14	0	0	0	0	0	0
170-179	23	12	9	1	0	0	43	0	0	18	9	6	0	0	0	0	0	0
180-189	7	6	8	0	0	0	0	0	0	6	8	2	0	0	0	0	0	0
190-300	8	5	2	0	0	0	0	0	0	7	3	5	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	27	20	18	38	27	25	870	891	925	8	5	4	9	6	4
074-109	23	49	53	0	0	0	0	0	0	23	50	104	0	0	1	0	0	10
110-119	82	119	134	0	2	3	0	17	22	66	128	163	0	1	0	0	8	0
120-129	145	163	160	1	3	2	7	18	13	140	153	172	0	1	0	0	7	0
130-139	136	163	141	3	6	2	22	37	14	174	178	167	1	1	0	6	6	0
140-149	123	106	105	9	5	6	73	47	57	133	129	103	0	1	1	0	8	10
150-159	76	60	53	2	3	2	26	50	38	109	93	83	3	0	1	28	0	12
160-169	50	30	32	5	0	1	100	0	31	77	60	50	1	0	0	13	0	0
170-179	30	14	18	3	0	1	100	0	56	56	31	39	2	0	0	36	0	0
180-189	18	12	7	2	1	1	111	83	143	41	33	19	1	1	0	24	30	0
190-300	22	14	8	2	0	0	91	0	0	51	36	25	0	0	1	0	0	40
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	7	10	10	21	22	19	426	592	701	6	10	9	14	17	13
074-109	9	24	47	0	0	0	0	0	0	13	17	26	0	0	0	0	0	0
110-119	24	52	75	1	0	2	42	0	27	17	38	54	0	0	0	0	0	0
120-129	51	72	97	1	2	1	20	28	10	40	64	111	1	1	1	25	16	9
130-139	64	97	99	1	0	1	16	0	10	66	84	124	0	1	1	0	12	8
140-149	57	64	63	0	2	1	0	31	16	61	79	90	0	1	0	0	13	0
150-159	49	48	57	0	1	2	0	21	35	65	103	88	2	1	2	31	10	23
160-169	23	36	34	1	2	0	43	56	0	44	70	60	0	1	2	0	14	33
170-179	22	19	17	2	0	1	91	0	59	41	44	55	2	1	1	49	23	18
180-189	11	12	15	1	2	1	91	167	67	24	31	36	0	1	0	0	32	0
190-300	20	26	27	0	1	1	0	38	37	55	62	57	1	3	2	18	48	35
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.009	-0.003	0.008
SE(B)	0.016	0.021	0.022
A	-5.600	-4.141	-6.061
WOMEN			
B	**********	**********	**********
SE(B)	******	******	******
A	**********	**********	**********
AGE 45-54 AT EXAM			
MEN			
B	0.032	0.010	0.024
SE(B)	0.007	0.010	0.011
A	-7.927	-4.945	-6.963
WOMEN			
B	0.014	0.002	*******
SE(B)	0.009	0.017	******
A	-6.828	-5.462	*******
AGE 55-64 AT EXAM			
MEN			
B	0.009	0.023	0.016
SE(B)	0.012	0.010	0.010
A	-5.100	-7.155	-6.235
WOMEN			
B	0.010	0.021	0.018
SE(B)	0.012	0.010	0.009
A	-5.827	-7.397	-7.229

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 6-1-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	12	10		8172	22	27		2328	3	13	
074-109	714	0	0	******	734	0	0	6.7	490	1	20	12.3	120	0	0	******
110-119	1696	2	12	******	2010	0	0	7.7	1010	0	0	15.0	202	0	0	******
120-129	2260	1	4	******	2586	1	4	8.6	1496	1	7	17.9	326	1	31	******
130-139	1980	0	0	******	2598	5	19	9.7	1528	7	46	21.6	430	0	0	******
140-149	1130	0	0	******	1704	4	23	10.9	1234	4	32	25.8	394	0	0	******
150-159	510	0	0	******	1052	1	10	12.4	878	1	11	31.1	312	0	0	******
160-169	244	0	0	******	578	1	17	13.9	556	2	36	37.1	202	0	0	******
170-179	128	0	0	******	306	0	0	15.6	390	2	51	44.3	100	0	0	******
180-189	62	0	0	******	198	0	0	17.7	232	2	86	52.7	86	1	116	******
190-300	40	0	0	******	180	0	0	22.8	358	2	56	83.5	156	1	64	******
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
074-109	1988	0	0	******	1384	1	7	******	438	0	0	2.8	68	0	0	4.6
110-119	2882	0	0	******	2642	0	0	******	1028	0	0	3.1	200	0	0	5.7
120-129	2634	0	0	******	3032	1	3	******	1546	0	0	3.4	300	0	0	6.8
130-139	1728	0	0	******	2994	0	0	******	1894	0	0	3.8	504	1	20	8.4
140-149	862	0	0	******	1932	1	5	******	1652	2	12	4.2	576	1	17	10.1
150-159	436	0	0	******	1358	0	0	******	1508	2	13	4.6	514	0	0	12.2
160-169	196	0	0	******	770	0	0	******	1056	0	0	5.0	438	0	0	14.6
170-179	92	0	0	******	520	0	0	******	770	1	13	5.6	344	1	29	17.8
180-189	52	0	0	******	378	0	0	******	574	0	0	6.1	224	1	45	21.6
190-300	42	0	0	******	400	0	0	******	792	0	0	7.9	364	1	27	35.2
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.012	*******	0.018	0.010	*******	0.019
SE(B)	******	******	0.013	******	0.007	0.015	******	0.014
A	*******	*******	-7.860	*******	-7.915	-8.496	*******	-8.988

TABLE 6-2-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	11	9	6	13	10	7	1091	1124	1081	2	1	1	2	1	1	
020-069	44	79	92	0	0	0	0	0	0	103	205	229	0	1	0	0	5	0	MEN
070-074	108	136	152	0	1	0	0	7	0	198	251	263	1	0	0	5	0	0	B 0.037 -0.006 0.013
075-079	71	92	116	0	1	2	0	11	17	136	154	188	0	0	1	0	0	5	SE(B) 0.022 0.029 0.035
080-084	194	207	185	3	4	2	15	19	11	275	248	179	1	0	0	4	0	0	A -7.593 -4.106 -6.051
085-089	112	101	126	3	3	0	27	30	0	102	106	97	0	0	0	0	0	0	
090-094	154	115	104	2	0	1	13	0	10	144	76	64	0	0	0	0	0	0	WOMEN
095-099	62	65	43	1	0	1	16	0	23	51	34	29	0	0	0	0	0	0	B**********
100-104	63	32	35	1	0	0	16	0	0	50	27	19	0	0	0	0	0	0	SE(B)****** ****** ******
105-109	11	21	15	0	0	0	0	0	0	11	13	5	0	0	0	0	0	0	A**********
110-160	39	21	15	1	0	0	26	0	0	21	10	8	0	0	0	0	0	0	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	27	20	18	38	27	25	870	891	925	8	5	4	9	6	4	
020-069	20	59	65	0	1	0	0	17	0	21	63	99	0	0	1	0	0	10	MEN
070-074	67	77	93	1	1	2	15	13	22	74	123	129	0	0	0	0	0	0	B 0.036 0.023 0.035
075-079	55	90	92	1	1	2	18	11	22	80	101	135	0	3	0	0	30	0	SE(B) 0.013 0.018 0.019
080-084	174	142	142	3	3	4	17	21	28	191	187	203	0	1	2	0	5	10	A -6.542 -5.522 -6.652
085-089	74	101	99	2	3	1	27	30	10	100	112	120	0	0	0	0	0	0	
090-094	127	109	86	6	5	4	47	46	47	159	124	89	4	0	0	25	0	0	WOMEN
095-099	56	57	59	6	3	1	107	53	17	69	55	59	0	0	1	0	0	17	B 0.052 -0.006*******
100-104	69	53	31	4	2	0	58	38	0	77	51	38	0	0	0	0	0	0	SE(B) 0.019 0.034 ******
105-109	21	16	18	2	1	4	95	63	222	26	21	15	1	0	0	38	0	0	A -9.629 -4.631*******
110-160	42	26	26	2	0	0	48	0	0	73	54	38	3	1	0	41	19	0	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	7	10	10	21	22	19	426	592	701	6	10	9	14	17	13	
020-069	17	37	54	0	0	1	0	0	19	13	31	47	0	0	1	0	0	21	MEN
070-074	31	63	82	3	3	3	97	48	37	35	68	81	1	1	2	29	15	25	B 0.013 0.026 0.010
075-079	40	61	61	0	0	0	0	0	0	27	55	77	1	2	2	37	36	26	SE(B) 0.026 0.020 0.021
080-084	70	84	113	0	1	2	0	12	18	73	107	147	0	1	0	0	9	0	A -4.978 -6.100 -4.794
085-089	36	42	59	0	0	1	0	0	17	54	72	99	1	0	1	19	0	10	
090-094	53	67	60	2	1	0	38	15	0	80	87	97	1	1	1	13	11	10	WOMEN
095-099	22	29	35	0	1	0	0	34	0	34	57	53	0	0	0	0	0	0	B -0.012 0.036 0.003
100-104	26	29	20	1	2	1	38	69	50	49	49	40	2	2	0	41	41	0	SE(B) 0.029 0.019 0.026
105-109	7	7	16	0	1	0	0	143	0	12	20	24	0	0	1	0	0	42	A -3.203 -7.403 -4.638
110-160	28	31	31	1	1	2	36	32	65	49	46	36	0	3	1	0	65	28	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 6-2-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	12	10		8172	22	27		2328	3	13	
020-069	714	0	0	******	744	0	0	6.9	638	1	16	15.6	276	1	36	******
070-074	1282	0	0	******	1456	0	0	7.8	1110	5	45	18.5	374	0	0	******
075-079	956	1	10	******	1216	1	8	8.5	854	0	0	20.9	256	0	0	******
080-084	2188	2	9	******	2864	2	7	9.3	1822	3	16	23.5	502	0	0	******
085-089	1178	0	0	******	1626	5	31	10.1	896	3	33	26.6	258	0	0	******
090-094	1146	0	0	******	1694	2	12	11.0	1158	3	26	30.0	294	0	0	******
095-099	530	0	0	******	814	1	12	12.0	534	0	0	33.8	104	0	0	******
100-104	438	0	0	******	828	1	12	13.0	568	4	70	37.8	130	1	77	******
105-109	128	0	0	******	268	0	0	14.2	162	0	0	43.0	30	0	0	******
110-160	204	0	0	******	436	0	0	16.6	430	3	70	55.6	104	1	96	******
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
020-069	1876	0	0	******	1408	1	7	******	736	0	0	2.3	280	0	0	7.0
070-074	2354	0	0	******	2414	0	0	******	1346	0	0	2.8	408	0	0	8.7
075-079	1542	0	0	******	1752	1	6	******	1042	2	19	3.2	320	1	31	10.2
080-084	2388	0	0	******	3564	1	3	******	2452	0	0	3.7	800	1	13	11.6
085-089	1080	0	0	******	1852	0	0	******	1400	0	0	4.2	358	0	0	13.6
090-094	848	0	0	******	1956	0	0	******	1746	2	11	4.8	572	1	17	15.6
095-099	336	0	0	******	772	0	0	******	746	0	0	5.5	274	1	36	18.0
100-104	278	0	0	******	788	0	0	******	850	0	0	6.3	278	0	0	20.6
105-109	98	0	0	******	256	0	0	******	280	0	0	7.2	52	0	0	24.0
110-160	112	0	0	******	648	0	0	******	660	1	15	9.6	190	1	53	32.7
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	0.017	*******	0.024	0.027	*******	0.029
SE(B)	******	******	0.023	******	0.015	0.030	******	0.030
A	*******	*******	-7.693	*******	-7.339	-9.411	*******	-8.421

TABLE 6-3-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	11	9	6	13	10	7	1091	1124	1081	2	1	1	2	1	1	
096-189	140	171	173	0	0	0	0	0	0	210	333	330	0	0	0	0	0	0	MEN
190-204	94	99	115	2	1	1	21	10	9	133	206	187	0	0	0	0	0	0	B 0.014 0.015 0.015
205-219	57	136	141	0	1	1	0	7	7	85	151	155	0	0	0	0	0	0	SE(B) 0.005 0.004 0.005
220-234	108	143	131	2	1	0	19	7	0	98	135	131	0	0	0	0	0	0	A -7.592 -8.207 -8.781
235-249	50	93	99	0	0	2	0	0	20	50	90	96	0	1	1	0	11	10	
250-264	50	69	75	1	2	0	20	29	0	46	56	56	1	0	0	22	0	0	WOMEN
265-279	28	53	45	1	1	0	36	19	0	22	55	36	0	0	0	0	0	0	B**********
280-294	18	31	37	0	1	0	0	32	0	16	28	29	1	0	0	63	0	0	SE(B)****** ****** ******
295-309	12	20	23	0	1	0	0	50	0	6	17	25	0	0	0	0	0	0	A**********
310-696	17	28	31	2	1	2	118	36	65	3	15	14	0	0	0	0	0	0	
UNKNOWN	284	26	13	3	0	0				422	38	22	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	27	20	18	38	27	25	870	891	925	8	5	4	9	6	4	
096-189	76	95	89	3	1	1	39	11	11	73	101	107	0	2	0	0	20	0	MEN
190-204	59	95	84	2	4	4	34	42	48	41	89	96	0	0	1	0	0	10	B -0.003 -0.000 0.001
205-219	50	110	128	6	5	5	120	45	39	55	114	114	0	0	0	0	0	0	SE(B) 0.006 0.006 0.006
220-234	65	124	115	2	3	0	31	24	0	83	143	136	1	0	0	12	0	0	A -2.446 -3.508 -3.867
235-249	47	105	89	0	1	2	0	10	22	41	109	133	0	0	0	0	0	0	
250-264	38	68	80	0	0	3	0	0	38	35	81	96	0	1	2	0	12	21	WOMEN
265-279	25	45	46	2	3	1	80	67	22	40	75	75	1	0	0	25	0	0	B******* 0.003*******
280-294	26	38	31	1	1	1	38	26	32	30	55	54	0	1	0	0	18	0	SE(B)****** 0.009 ******
295-309	14	19	17	1	1	1	71	53	59	24	30	36	0	0	1	0	0	28	A******* -5.797*******
310-696	10	19	21	0	0	0	0	0	0	38	65	66	0	1	0	0	15	0	
UNKNOWN	295	12	11	10	1	0				410	29	12	6	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	7	10	10	21	22	19	426	592	701	6	10	9	14	17	13	
096-189	50	80	95	0	1	3	0	13	32	13	27	35	0	0	0	0	0	0	MEN
190-204	32	59	51	0	2	2	0	34	39	19	41	46	0	0	0	0	0	0	B 0.007 0.003 -0.004
205-219	29	69	87	2	1	1	69	14	11	22	48	64	0	0	0	0	0	0	SE(B) 0.011 0.008 0.008
220-234	40	57	68	1	1	1	25	18	15	46	96	92	0	1	1	0	10	11	A -5.427 -4.465 -3.090
235-249	24	47	72	0	1	0	0	21	0	28	68	84	1	0	0	36	0	0	
250-264	18	54	72	2	1	0	111	19	0	38	73	97	1	0	2	26	0	21	WOMEN
265-279	15	26	27	0	1	1	0	38	37	28	62	88	1	0	2	36	0	23	B******* 0.017 0.012
280-294	10	21	25	0	2	1	0	95	40	20	45	51	1	1	0	50	22	0	SE(B)****** 0.007 0.007
295-309	9	18	19	0	0	1	0	0	53	19	37	52	0	5	1	0	135	19	A******* -8.811 -7.759
310-696	6	12	13	0	0	0	0	0	0	27	75	82	0	2	2	0	27	24	
UNKNOWN	97	7	2	2	0	0				166	20	10	2	1	1				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 6-3-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	12	10		8172	22	27		2328	3	13	
096-189	1522	0	0	******	1356	0	0	4.7	980	1	10	20.7	282	1	35	******
190-204	994	0	0	******	1202	2	17	6.1	844	0	0	23.0	276	1	36	******
205-219	1192	0	0	******	1740	0	0	7.2	1088	5	46	24.5	306	0	0	******
220-234	1316	0	0	******	1772	4	23	8.4	1234	5	41	26.2	366	1	27	******
235-249	976	1	10	******	1506	1	7	9.9	1146	3	26	27.9	268	0	0	******
250-264	776	1	13	******	1346	1	7	11.5	1024	2	20	29.8	274	0	0	******
265-279	552	0	0	******	960	1	10	13.5	676	2	30	31.7	214	0	0	******
280-294	402	0	0	******	658	1	15	16.0	430	2	47	33.9	182	0	0	******
295-309	246	1	41	******	380	1	26	18.7	292	2	68	36.1	64	0	0	******
310-696	338	0	0	******	524	1	19	34.1	296	0	0	41.6	78	0	0	******
UNKNOWN	450	0			502	0			162	0			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
096-189	2920	0	0	******	1484	0	0	******	440	0	0	3.8	94	0	0	******
190-204	1782	0	0	******	1442	0	0	******	578	0	0	4.0	138	0	0	******
205-219	1486	0	0	******	1776	0	0	******	870	1	11	4.1	246	0	0	******
220-234	1352	0	0	******	2182	0	0	******	1376	0	0	4.3	396	0	0	******
235-249	980	0	0	******	1930	0	0	******	1332	1	8	4.4	444	1	23	******
250-264	630	0	0	******	1642	1	6	******	1498	0	0	4.5	474	0	0	******
265-279	440	0	0	******	1384	0	0	******	1414	1	7	4.6	504	0	0	******
280-294	302	0	0	******	1022	0	0	******	1116	1	9	4.8	368	1	27	******
295-309	160	0	0	******	670	1	15	******	816	1	12	4.9	278	1	36	******
310-1124	182	0	0	******	1180	1	8	******	1506	0	0	5.3	540	1	19	******
UNKNOWN	678	0			698	0			312	0			50	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.011	*******	0.004	0.002	*******	*******
SE(B)	******	******	0.004	******	0.005	0.010	******	******
A	*******	*******	-8.823	*******	-6.233	-7.507	*******	*******

TABLE 6-4-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	11	9	6	13	10	7	1091	1124	1081	2	1	1	2	1	1	
067-119	18	25	17	0	0	0	0	0	0	180	274	242	0	0	0	0	0	0	MEN
120-124	13	43	25	0	1	1	0	23	40	112	245	188	0	1	0	0	4	0	B 0.007 0.021 -0.015
125-129	24	60	29	0	0	0	0	0	0	98	161	170	0	0	0	0	0	0	SE(B) 0.031 0.027 0.036
130-134	61	125	92	0	1	1	0	8	11	86	194	209	0	0	1	0	0	5	A -5.331 -7.586 -2.792
135-139	93	125	108	2	0	0	22	0	0	94	106	120	2	0	0	21	0	0	
140-144	103	147	133	1	2	0	10	14	0	47	44	70	0	0	0	0	0	0	WOMEN
145-149	68	106	193	3	2	2	44	19	10	5	20	28	0	0	0	0	0	0	B**********
150-154	84	101	109	0	1	1	0	10	9	8	15	14	0	0	0	0	0	0	SE(B)****** ****** ******
155-159	43	55	98	0	1	1	0	18	10	2	8	6	0	0	0	0	0	0	A**********
160-216	50	50	62	1	1	0	20	20	0	5	3	1	0	0	0	0	0	0	
UNKNOWN	301	32	17	4	0	0				454	54	33	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	27	20	18	38	27	25	870	891	925	8	5	4	9	6	4	
067-119	11	30	15	0	0	0	0	0	0	77	173	150	0	2	2	0	12	13	MEN
120-124	21	44	28	4	3	3	190	68	107	87	192	158	1	3	1	11	16	6	B -0.036 -0.001 -0.024
125-129	20	41	28	2	0	0	100	0	0	65	130	144	0	0	0	0	0	0	SE(B) 0.019 0.019 0.022
130-134	43	104	92	3	3	3	70	29	33	75	176	184	0	0	0	0	0	0	A 1.968 -3.464 -0.334
135-139	62	99	86	2	3	1	32	30	12	67	87	131	1	0	1	15	0	8	
140-144	78	119	134	2	3	3	26	25	22	34	48	63	0	0	0	0	0	0	WOMEN
145-149	49	101	125	1	1	3	20	10	24	15	23	48	0	0	0	0	0	0	B******* -0.073*******
150-154	46	88	82	1	2	3	22	23	37	10	12	18	0	0	0	0	0	0	SE(B)****** 0.034 ******
155-159	28	43	63	0	0	1	0	0	16	3	5	8	0	0	0	0	0	0	A******* 3.853*******
160-216	33	43	45	2	3	0	61	70	0	1	3	4	0	0	0	0	0	0	
UNKNOWN	314	18	13	10	2	1				436	42	17	6	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	7	10	10	21	22	19	426	592	701	6	10	9	14	17	13	
067-119	22	31	23	0	1	2	0	32	87	42	111	96	1	1	0	24	9	0	MEN
120-124	10	22	22	0	1	0	0	45	0	44	105	109	0	0	2	0	0	18	B 0.014 -0.007 -0.024
125-129	12	32	32	0	0	0	0	0	0	39	92	100	1	1	1	26	11	10	SE(B) 0.034 0.027 0.026
130-134	31	72	47	2	2	0	65	28	0	50	128	173	0	2	0	0	16	0	A -5.760 -2.863 -0.585
135-139	33	69	76	1	1	2	30	14	26	38	57	87	0	1	3	0	18	34	
140-144	47	85	94	0	3	2	0	35	21	23	44	59	0	3	1	0	68	17	WOMEN
145-149	16	39	93	1	0	3	63	0	32	7	13	37	0	1	0	0	77	0	B******* 0.057 0.052
150-154	26	47	60	0	0	0	0	0	0	3	9	15	0	0	0	0	0	0	SE(B)****** 0.031 0.032
155-159	9	25	47	1	0	1	111	0	21	2	5	8	0	0	1	0	0	125	A*******-11.526-11.308
160-216	17	14	33	0	1	0	0	71	0	1	1	1	0	0	0	0	0	0	
UNKNOWN	107	14	4	2	1	0				177	27	16	4	1	1				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 6-4-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	12	10		8172	22	27		2328	3	13	
067-119	136	0	0	******	148	0	0	16.0	218	0	0	42.5	48	0	0	******
120-124	206	1	49	******	264	1	38	14.5	164	2	122	37.4	16	0	0	******
125-129	272	0	0	******	286	0	0	13.6	230	0	0	35.4	44	0	0	******
130-134	686	0	0	******	818	0	0	12.7	620	3	48	32.9	98	0	0	******
135-139	886	0	0	******	1032	2	19	11.9	768	2	26	30.7	176	0	0	******
140-144	1288	0	0	******	1684	2	12	11.2	1278	3	23	28.9	322	0	0	******
145-149	1550	0	0	******	2076	2	10	10.6	1382	5	36	27.2	386	1	26	******
150-154	1284	0	0	******	1858	3	16	9.9	1210	2	17	25.4	494	1	20	******
155-159	980	1	10	******	1474	1	7	9.3	1042	4	38	23.9	342	1	29	******
160-216	948	1	11	******	1732	1	6	8.3	1054	1	9	21.2	374	0	0	******
UNKNOWN	528	0			574	0			206	0			28	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
067-119	1958	0	0	******	1644	1	6	******	938	0	0	3.6	182	0	0	******
120-124	1584	0	0	******	1720	0	0	******	1040	0	0	4.0	236	0	0	******
125-129	1550	0	0	******	1948	0	0	******	1294	1	8	4.2	346	0	0	******
130-134	2028	0	0	******	2756	0	0	******	2256	1	4	4.4	628	0	0	******
135-139	1444	0	0	******	2532	0	0	******	1854	0	0	4.7	620	0	0	******
140-144	814	0	0	******	1784	1	6	******	1560	3	19	5.0	632	1	16	******
145-149	428	0	0	******	1236	1	8	******	1014	0	0	5.3	414	1	24	******
150-154	188	0	0	******	588	0	0	******	512	0	0	5.6	228	1	44	******
155-159	78	0	0	******	200	0	0	******	260	0	0	5.9	124	0	0	******
160-216	34	0	0	******	156	0	0	******	150	0	0	6.5	66	1	152	******
UNKNOWN	806	0			846	0			380	0			56	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.013	*******	-0.013	0.012	*******	*******
SE(B)	******	******	0.024	******	0.017	0.039	******	******
A	*******	*******	-4.264	*******	-3.287	-8.574	*******	*******

TABLE 6-5-A

INCIDENCE OF EVENT AFTER SPECIFIEO EXAM*, 8Y SEX, AGE, ANO LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUOY, 16-YEAR FOLLOW-UP
EVENT: SUOOEN ANO UNEXPECTEO OEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIOENCE			RATE PER 1000			WOMEN AT RISK			INCIOENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUM8ER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	11	9	6	13	10	7	1091	1124	1081	2	1	1	2	1	1	
062-159	251	235	126	3	2	0	12	9	0	342	441	216	1	0	0	3	0	0	MEN
160-179	83	138	72	1	1	1	12	7	14	102	193	127	0	0	0	0	0	0	8 0.006 0.006 0.013
180-199	99	155	113	1	2	0	10	13	0	92	151	132	0	1	0	0	7	0	SE(8) 0.005 0.005 0.007
200-219	45	133	124	0	1	1	0	8	8	59	150	185	0	0	1	0	0	5	A -5.375 -5.660 -8.091
220-239	32	62	121	1	1	1	31	16	8	39	73	148	1	0	0	26	0	0	
240-259	30	35	105	0	0	0	0	0	0	18	32	117	0	0	0	0	0	0	WOMEN
260-279	16	38	75	1	0	1	63	0	13	7	22	59	0	0	0	0	0	0	B**********
280-299	3	22	60	0	0	0	0	0	0	2	12	42	0	0	0	0	0	0	SE(8)****** ****** ******
300-319	4	13	32	1	1	0	250	77	0	1	4	16	0	0	0	0	0	0	A**********
320-968	6	11	38	0	1	2	0	91	53	0	6	9	0	0	0	****	0	0	
UNKNOWN	289	27	17	3	0	0				429	40	30	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	27	20	18	38	27	25	870	891	925	8	5	4	9	6	4	
062-159	154	207	110	7	5	3	45	24	27	156	201	131	1	2	1	6	10	8	MEN
160-179	64	116	78	2	3	1	31	26	13	66	113	87	0	0	0	0	0	0	8 0.002 0.001 0.003
180-199	45	128	88	1	4	1	22	31	11	72	140	84	0	0	0	0	0	0	SE(8) 0.004 0.004 0.004
200-219	48	114	106	2	3	4	42	26	38	71	166	171	0	0	0	0	0	0	A -3.391 -3.747 -4.219
220-239	20	62	87	1	2	3	50	32	34	31	94	93	0	0	0	0	0	0	
240-259	27	40	75	0	1	2	0	25	27	18	63	111	1	1	1	56	16	9	WOMEN
260-279	23	28	58	3	0	1	130	0	17	12	51	90	0	2	1	0	39	11	B******* 0.007*******
280-299	9	12	46	1	1	1	111	83	22	10	18	59	0	0	0	0	0	0	SE(8)****** 0.009 ******
300-319	4	5	23	0	0	0	0	0	0	5	6	31	0	0	1	0	0	32	A******* -6.514*******
320-968	5	4	26	0	0	2	0	0	77	11	7	44	0	0	0	0	0	0	
UNKNOWN	306	14	14	10	1	0				418	32	24	6	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	7	10	10	21	22	19	426	592	701	6	10	9	14	17	13	
062-159	86	114	72	2	3	2	23	26	28	69	75	56	1	0	1	14	0	18	MEN
160-179	48	75	57	0	2	1	0	27	18	37	77	42	2	1	0	54	13	0	8 0.003 0.000 0.002
180-199	25	70	64	0	1	0	0	14	0	36	105	83	0	1	1	0	10	12	SE(8) 0.008 0.007 0.006
200-219	29	75	72	1	0	1	34	0	14	38	122	108	1	1	0	26	8	0	A -4.350 -3.833 -4.335
220-239	14	48	81	1	2	4	71	42	49	28	75	95	0	1	1	0	13	11	
240-259	8	25	76	0	0	0	0	0	0	14	44	106	0	4	3	0	91	28	WOMEN
260-279	13	19	44	1	1	0	77	53	0	15	30	59	0	1	0	0	33	0	8******* 0.009 0.004
280-299	3	10	20	0	1	0	0	100	0	5	23	66	0	0	1	0	0	15	SE(8)****** 0.007 0.007
300-319	0	2	25	0	0	0	****	0	0	7	9	41	0	0	1	0	0	24	A******* -6.064 -5.423
320-968	2	3	18	0	0	2	0	0	111	6	9	32	0	0	0	0	0	0	
UNKNOWN	102	9	2	2	0	0				171	23	13	2	1	1				

* PERIOD OF O8SERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 6-5-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	12	10		8172	22	27		2328	3	13	
062-159	1320	0	0	******	1128	0	0	4.0	698	1	14	15.9	60	0	0	******
160-179	654	1	15	******	634	0	0	5.1	450	0	0	18.5	64	0	0	******
180-199	940	0	0	******	818	1	12	6.0	572	0	0	20.4	46	0	0	******
200-219	904	0	0	******	1012	1	10	7.0	698	1	14	22.5	182	0	0	******
220-239	868	1	12	******	1198	1	8	8.3	892	6	67	24.7	210	2	95	******
240-259	934	0	0	******	1574	3	19	9.6	1188	2	17	27.0	460	0	0	******
260-279	928	0	0	******	1568	1	6	11.1	1240	4	32	29.7	458	0	0	******
280-299	638	1	16	******	1346	2	15	12.9	946	4	42	32.4	344	0	0	******
300-319	494	0	0	******	922	0	0	15.1	646	0	0	35.6	272	1	37	******
320-968	594	0	0	******	1186	3	25	22.4	656	4	61	43.8	214	0	0	******
UNKNOWN	490	0			560	0			186	0			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
062-159	2230	0	0	******	1320	0	0	******	588	0	0	3.5	30	0	0	******
160-179	980	0	0	******	758	0	0	******	440	0	0	3.8	44	0	0	******
180-199	1106	0	0	******	870	0	0	******	596	1	17	3.9	58	0	0	******
200-219	1292	0	0	******	1552	0	0	******	948	0	0	4.1	158	0	0	******
220-239	1246	0	0	******	1520	0	0	******	916	0	0	4.3	188	0	0	******
240-259	1182	0	0	******	1902	1	5	******	1246	1	8	4.4	382	0	0	******
260-279	892	0	0	******	1998	0	0	******	1508	1	7	4.6	574	0	0	******
280-299	614	0	0	******	1668	1	6	******	1422	0	0	4.8	586	0	0	******
300-319	364	0	0	******	1358	0	0	******	1374	0	0	5.0	666	0	0	******
320-968	264	0	0	******	1666	1	6	******	1870	2	11	5.4	782	4	51	******
UNKNOWN	742	0			798	0			350	0			64	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.008	*******	0.005	0.002	*******	*******
SE(B)	******	******	0.004	******	0.003	0.008	******	******
A	*******	*******	-8.174	*******	-6.376	-7.535	*******	*******

TABLE 6-6-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	11	9	6	13	10	7	1091	1124	1081	2	1	1	2	1	1	
029-059	15	20	17	0	0	0	0	0	0	12	18	20	0	0	0	0	0	0	MEN
060-069	152	137	145	1	1	1	7	7	7	149	176	171	1	1	1	7	6	6	B 0.008 0.023 -0.035
070-079	212	313	318	4	2	3	19	6	9	287	396	390	0	0	0	0	0	0	SE(B) 0.016 0.013 0.038
080-089	181	211	220	2	2	2	11	9	9	236	301	305	0	0	0	0	0	0	A -4.898 -6.407 -2.292
090-099	71	105	111	2	3	0	28	29	0	91	128	110	0	0	0	0	0	0	
100-109	30	38	41	0	0	0	0	0	0	33	45	33	0	0	0	0	0	0	WOMEN
110-119	17	13	11	1	0	0	59	0	0	14	17	15	0	0	0	0	0	0	B**********
120-129	6	2	6	0	0	0	0	0	0	5	7	5	0	0	0	0	0	0	SE(B)****** ****** ******
130-139	5	5	3	0	1	0	0	200	0	2	1	4	0	0	0	0	0	0	A**********
140-524	4	5	4	0	0	0	0	0	0	4	5	7	1	0	0	250	0	0	
UNKNOWN	165	20	7	1	0	0				258	30	21	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	27	20	18	38	27	25	870	891	925	8	5	4	9	6	4	
029-059	11	15	13	0	2	1	0	133	77	5	10	13	0	0	0	0	0	0	MEN
060-069	100	98	100	4	4	4	40	41	40	86	121	121	0	0	2	0	0	17	B 0.012 0.003 0.005
070-079	150	245	220	4	6	5	27	24	23	168	255	327	1	2	1	6	8	3	SE(B) 0.004 0.006 0.008
080-089	127	179	208	5	1	2	39	6	10	192	281	262	2	2	1	10	7	4	A -4.216 -3.832 -4.150
090-099	79	102	90	2	2	2	25	20	22	87	112	113	1	0	0	11	0	0	
100-109	19	34	41	1	2	2	53	59	49	45	46	35	0	0	0	0	0	0	WOMEN
110-119	13	23	13	0	1	0	0	43	0	14	23	21	0	0	0	0	0	0	B******* 0.021*******
120-129	2	7	5	1	0	0	500	0	0	6	2	4	0	0	0	0	0	0	SE(B)****** 0.009 ******
130-139	6	2	1	0	0	0	0	0	0	2	4	5	0	0	0	0	0	0	A******* -7.060*******
140-524	14	16	14	4	1	1	286	63	71	8	13	14	0	1	0	0	77	0	
UNKNOWN	184	9	6	6	1	1				257	24	10	4	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	7	10	10	21	22	19	426	592	701	6	10	9	14	17	13	
029-059	8	9	6	0	0	0	0	0	0	5	15	12	0	1	0	0	67	0	MEN
060-069	38	61	75	0	2	1	0	33	13	33	60	58	0	1	1	0	17	17	B -0.002 0.007 0.013
070-079	88	136	154	2	0	1	23	0	6	93	157	200	0	2	3	0	13	15	SE(B) 0.016 0.009 0.006
080-089	67	117	130	3	3	4	45	26	31	88	164	220	1	2	2	11	12	9	A -3.435 -4.481 -5.125
090-099	35	56	85	2	1	2	57	18	24	53	95	93	0	1	0	0	11	0	
100-109	12	20	30	0	0	0	0	0	0	24	46	51	1	1	0	42	22	0	WOMEN
110-119	8	17	18	0	2	1	0	118	56	4	9	18	0	0	0	0	0	0	B******* -0.005 0.006
120-129	3	7	13	0	1	0	0	143	0	6	12	17	0	1	1	0	83	59	SE(B)****** 0.016 0.007
130-139	2	2	4	0	0	0	0	0	0	4	1	3	0	0	0	0	0	0	A******* -3.697 -5.017
140-524	9	13	13	0	0	1	0	0	77	13	16	21	0	0	1	0	0	48	
UNKNOWN	60	12	3	0	1	0				103	17	8	4	1	1				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 6-6-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	12	10		8172	22	27		2328	3	13	
029-059	288	0	0	******	338	1	30	9.2	244	3	123	25.5	54	0	0	******
060-069	1704	0	0	******	2168	3	14	9.6	1318	2	15	26.2	414	1	24	******
070-079	2894	2	7	******	3892	3	8	9.9	2502	6	24	26.7	674	0	0	******
080-089	2048	0	0	******	2758	1	4	10.3	1976	6	30	27.3	522	0	0	******
090-099	906	1	11	******	1322	2	15	10.8	966	3	31	28.0	336	0	0	******
100-109	334	0	0	******	526	1	19	11.2	412	0	0	28.6	112	0	0	******
110-119	156	0	0	******	250	0	0	11.7	226	1	44	29.3	46	1	217	******
120-129	50	0	0	******	86	0	0	12.2	120	0	0	30.1	34	0	0	******
130-139	34	0	0	******	52	0	0	12.7	54	0	0	30.8	34	0	0	******
140-524	58	0	0	******	232	1	43	17.9	214	1	47	36.4	78	1	128	******
UNKNOWN	292	0			322	0			140	0			24	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
029-059	260	0	0	******	296	0	0	******	240	0	0	31.8	54	0	0	******
060-069	1862	0	0	******	2686	0	0	******	1452	4	28	11.5	414	1	24	******
070-079	3862	0	0	******	5186	0	0	******	3550	0	0	5.0	1118	0	0	******
080-089	2874	0	0	******	3890	2	5	******	3048	1	3	2.2	918	0	0	******
090-099	982	0	0	******	1598	0	0	******	1368	0	0	0.9	462	2	43	******
100-109	320	0	0	******	618	0	0	******	612	0	0	0.4	238	0	0	******
110-119	136	0	0	******	294	0	0	******	266	0	0	0.1	80	0	0	******
120-129	48	0	0	******	98	0	0	******	186	0	0	0.1	88	0	0	******
130-139	20	0	0	******	40	0	0	******	54	0	0	0.0	28	0	0	******
140-524	58	0	0	******	158	1	63	******	250	0	0	0.0	90	1	111	******
UNKNOWN	490	0			546	0			232	0			42	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.004	*******	0.002	-0.090	*******	*******
SE(B)	******	******	0.009	******	0.007	0.040	******	******
A	*******	*******	-6.534	*******	-5.402	-0.233	*******	*******

TABLE 6-7-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: URIC ACID (MG/LITER)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	11	9	6	13	10	7	1091	1124	1081	2	1	1	2	1	1
005-029	29	15	22	1	0	1	34	0	45	187	169	170	1	0	0	5	0	0
030-034	36	41	29	0	0	0	0	0	0	119	208	255	0	0	1	0	0	4
035-039	74	51	63	1	0	2	14	0	32	124	271	266	1	1	0	8	4	0
040-044	77	136	147	1	3	1	13	22	7	111	219	209	0	0	0	0	0	0
045-049	90	155	183	1	1	1	11	6	5	66	117	87	0	0	0	0	0	0
050-054	97	151	172	1	2	1	10	13	6	22	56	44	0	0	0	0	0	0
055-059	73	120	138	1	1	0	14	8	0	23	28	20	0	0	0	0	0	0
060-064	43	87	65	1	1	0	23	11	0	6	9	3	0	0	0	0	0	0
065-069	29	51	29	1	1	0	34	20	0	4	4	4	0	0	0	0	0	0
070-104	24	35	22	0	0	0	0	0	0	5	4	1	0	0	0	0	0	0
UNKNOWN	286	27	13	3	0	0				424	39	22	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	27	20	18	38	27	25	870	891	925	8	5	4	9	6	4
005-029	22	16	8	2	0	0	91	0	0	88	99	102	0	1	0	0	10	0
030-034	27	23	25	0	0	0	0	0	0	70	113	157	0	0	2	0	0	13
035-039	45	66	48	1	1	0	22	15	0	77	171	200	1	0	0	13	0	0
040-044	50	101	120	2	1	1	40	10	8	72	175	184	1	2	0	14	11	0
045-049	71	118	146	1	1	3	14	8	21	76	118	130	0	0	0	0	0	0
050-054	58	115	133	5	6	5	86	52	38	36	82	84	0	0	0	0	0	0
055-059	56	108	92	2	6	5	36	56	54	15	60	40	0	1	1	0	17	25
060-064	35	78	78	2	2	3	57	26	38	13	26	9	0	0	0	0	0	0
065-069	21	47	30	0	1	0	0	21	0	8	8	4	0	0	0	0	0	0
070-104	24	46	19	2	1	1	83	22	53	3	7	2	0	1	1	0	143	500
UNKNOWN	296	12	12	10	1	0				412	32	13	6	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	7	10	10	21	22	19	426	592	701	6	10	9	14	17	13
005-029	8	8	5	0	0	0	0	0	0	26	58	53	1	0	0	38	0	0
030-034	18	20	14	0	1	0	0	50	0	37	72	98	1	2	1	27	28	10
035-039	26	44	53	0	1	2	0	23	38	49	101	132	1	1	1	20	10	8
040-044	37	57	84	1	0	1	27	0	12	59	117	166	1	1	1	17	9	6
045-049	37	76	104	2	2	1	54	26	10	36	94	114	0	0	3	0	0	26
050-054	35	78	104	1	2	1	29	26	10	27	59	62	0	3	0	0	51	0
055-059	33	61	85	0	2	3	0	33	35	15	37	34	0	1	1	0	27	29
060-064	17	53	42	0	0	1	0	0	24	3	18	16	0	0	1	0	0	63
065-069	12	26	25	0	1	1	0	38	40	3	10	10	0	0	0	0	0	0
070-104	10	19	12	1	1	0	100	53	0	3	6	6	0	1	0	0	167	0
UNKNOWN	97	8	3	2	0	0				168	20	10	2	1	1			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.008	0.007	-0.100
SE(B)	0.028	0.031	0.044
A	-4.641	-4.874	-0.493
WOMEN			
B	**********	**********	**********
SE(B)	******	******	******
A	**********	**********	**********
AGE 45-54 AT EXAM			
MEN			
B	0.011	0.027	0.048
SE(B)	0.019	0.019	0.022
A	-3.701	-5.023	-6.143
WOMEN			
B	*******	0.049	*******
SE(B)	******	0.041	******
A	*******	-7.324	*******
AGE 55-64 AT EXAM			
MEN			
B	0.019	0.010	0.006
SE(B)	0.037	0.028	0.033
A	-4.774	-4.279	-4.254
WOMEN			
B	*******	0.056	0.040
SE(B)	******	0.029	0.034
A	*******	-6.665	-6.209

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 6-7-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: URIC ACID (MG/LITER)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	12	10		8172	22	27		2328	3	13	
005-029	188	0	0	******	170	0	0	13.1	74	0	0	18.5	36	0	0	******
030-034	348	0	0	******	356	0	0	12.3	312	2	64	20.9	66	1	152	******
035-039	626	1	16	******	976	1	10	11.8	732	0	0	22.3	188	0	0	******
040-044	1384	0	0	******	1760	4	23	11.3	1328	2	15	24.2	438	1	23	******
045-049	1644	1	6	******	2340	0	0	10.8	1692	5	30	26.1	460	0	0	******
050-054	1566	1	6	******	2224	4	18	10.3	1396	4	29	28.1	388	1	26	******
055-059	1210	0	0	******	1630	2	12	9.9	1194	5	42	30.3	364	0	0	******
060-064	700	0	0	******	984	0	0	9.4	708	4	56	32.6	212	0	0	******
065-069	390	0	0	******	516	1	19	9.0	312	0	0	35.3	92	0	0	******
070-104	244	0	0	******	438	0	0	8.3	246	0	0	40.8	58	0	0	******
UNKNOWN	464	0			552	0			178	0			26	0		

	WOMEN	EVENTS	RATE	SMOOTHED RATE	WOMEN	EVENTS	RATE	SMOOTHED RATE	WOMEN	EVENTS	RATE	SMOOTHED RATE	WOMEN	EVENTS	RATE	SMOOTHED RATE
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
005-029	1820	0	0	******	2138	1	5	******	986	0	0	1.2	256	1	39	******
030-034	2290	0	0	******	2666	0	0	******	1564	1	6	1.9	440	1	23	******
035-039	2474	0	0	******	3348	1	3	******	2220	0	0	2.6	706	1	14	******
040-044	2006	0	0	******	3120	0	0	******	2560	0	0	3.8	756	0	0	******
045-049	886	0	0	******	1684	0	0	******	1744	1	6	5.4	650	1	15	******
050-054	382	0	0	******	956	0	0	******	976	2	20	7.7	342	0	0	******
055-059	224	0	0	******	416	0	0	******	462	0	0	10.8	192	0	0	******
060-064	66	0	0	******	198	0	0	******	220	1	45	15.1	62	0	0	******
065-069	32	0	0	******	98	0	0	******	132	0	0	21.7	36	0	0	******
070-104	26	0	0	******	28	1	357	******	58	0	0	38.2	24	0	0	******
UNKNOWN	706	0			758	0			336	0			68	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.009	*******	0.015	0.072	*******	*******
SE(B)	******	******	0.029	******	0.021	0.041	******	******
A	*******	*******	-5.701	*******	-5.978	-10.190	*******	*******

TABLE 6-8-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	11	9	6	13	10	7	1091	1124	1081	2	1	1	2	1	1
052-084	98	84	73	1	1	0	10	12	0	196	196	174	0	0	0	0	0	0
085-089	77	76	82	1	1	1	13	13	12	128	149	159	0	0	0	0	0	0
090-094	104	113	92	2	2	0	19	18	0	153	179	166	0	0	0	0	0	0
095-099	120	133	140	1	1	2	8	8	14	153	155	142	0	0	0	0	0	0
100-104	107	102	117	1	2	0	9	20	0	120	110	130	0	0	0	0	0	0
105-109	112	105	115	2	0	1	18	0	9	96	92	84	1	0	1	10	0	12
110-114	88	99	106	0	2	0	0	20	0	64	60	60	0	1	0	0	17	0
115-119	57	62	57	1	0	2	18	0	35	45	57	44	1	0	0	22	0	0
120-124	40	41	43	2	0	0	50	0	0	29	38	37	0	0	0	0	0	0
125-226	50	49	53	0	0	0	0	0	0	96	75	75	0	0	0	0	0	0
UNKNOWN	5	5	5	0	0	0				11	13	10	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	27	20	18	38	27	25	870	891	925	8	5	4	9	6	4
052-084	55	63	63	0	0	1	0	0	16	68	81	92	2	2	1	29	25	11
085-089	48	49	52	2	2	1	42	41	19	56	73	86	0	0	1	0	0	12
090-094	99	81	80	2	1	1	20	12	13	83	89	109	0	0	0	0	0	0
095-099	97	118	89	1	0	0	10	0	0	123	119	141	0	0	0	0	0	0
100-104	107	107	116	4	2	4	37	19	34	127	126	120	1	0	0	8	0	0
105-109	117	103	103	3	4	3	26	39	29	100	101	99	0	2	0	0	20	0
110-114	67	88	81	5	2	2	75	23	25	78	81	80	1	0	1	13	0	13
115-119	50	54	59	0	3	3	0	56	51	61	67	58	1	1	1	16	15	17
120-124	21	28	26	1	3	1	48	107	38	52	45	34	1	0	0	19	0	0
125-226	39	35	39	8	3	2	205	86	51	119	106	103	2	0	0	17	0	0
UNKNOWN	5	4	3	1	0	0				3	3	3	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	7	10	10	21	22	19	426	592	701	6	10	9	14	17	13
052-084	43	45	43	0	1	0	0	22	0	29	40	50	0	0	0	0	0	0
085-089	23	31	42	1	0	0	43	0	0	25	37	45	0	0	0	0	0	0
090-094	31	44	57	1	1	1	32	23	18	38	56	62	0	0	0	0	0	0
095-099	53	78	81	0	0	0	0	0	0	45	73	98	0	0	0	0	0	0
100-104	48	63	82	2	2	3	42	32	37	51	83	100	1	4	3	20	48	30
105-109	33	57	74	0	2	2	0	35	27	39	55	82	2	0	2	51	0	24
110-114	39	55	75	0	1	2	0	18	27	46	62	55	3	2	1	65	32	18
115-119	24	38	34	1	1	0	42	26	0	43	42	60	0	0	1	0	0	17
120-124	17	19	19	2	0	1	118	0	53	29	49	40	0	2	1	0	41	25
125-226	15	17	23	0	2	1	0	118	43	79	94	107	0	2	1	0	21	9
UNKNOWN	4	3	1	0	0	0				2	1	2	0	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.003	-0.026	0.003
SE(B)	0.021	0.026	0.029
A	-4.620	-1.959	-5.279
WOMEN			
B	**********	**********	**********
SE(B)	******	******	******
A	**********	**********	**********
AGE 45-54 AT EXAM			
MEN			
B	0.054	0.048	0.028
SE(B)	0.014	0.015	0.017
A	-8.987	-8.645	-6.580
WOMEN			
B	0.015	-0.032	*******
SE(B)	0.016	0.030	******
A	-6.323	-1.966	*******
AGE 55-64 AT EXAM			
MEN			
B	0.023	0.044	0.034
SE(B)	0.025	0.021	0.023
A	-6.191	-8.494	-7.570
WOMEN			
B	-0.004	0.017	0.011
SE(B)	0.021	0.014	0.016
A	-3.860	-6.016	-5.556

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 6-8-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	12	10		8172	22	27		2328	3	13	
052-084	750	0	0	******	950	1	11	8.0	666	3	45	12.3	254	0	0	******
085-089	718	1	14	******	912	0	0	8.4	552	2	36	15.6	190	0	0	******
090-094	940	0	0	******	1260	1	8	8.6	850	2	24	18.3	246	0	0	******
095-099	1394	0	0	******	1668	1	6	8.9	1296	0	0	21.2	336	1	30	******
100-104	1168	1	9	******	1802	3	17	9.2	1380	3	22	24.6	332	1	30	******
105-109	1136	0	0	******	1734	2	12	9.4	1142	1	9	28.6	296	0	0	******
110-114	1010	0	0	******	1378	0	0	9.7	918	2	22	33.2	306	0	0	******
115-119	632	1	16	******	880	1	11	10.0	586	2	34	38.5	160	1	63	******
120-124	424	0	0	******	550	2	36	10.3	420	3	71	44.9	84	0	0	******
125-226	542	0	0	******	750	0	0	11.0	332	4	120	65.3	122	0	0	******
UNKNOWN	50	0			62	1			30	0			2	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
052-084	1884	0	0	******	1670	1	6	******	912	0	0	3.2	394	0	0	12.5
085-089	1490	0	0	******	1654	0	0	******	862	1	12	3.5	226	0	0	13.0
090-094	1690	0	0	******	1908	0	0	******	1130	0	0	3.7	294	0	0	13.3
095-099	1524	0	0	******	2270	0	0	******	1578	0	0	3.9	450	0	0	13.6
100-104	1178	0	0	******	1910	0	0	******	1450	0	0	4.1	454	1	22	13.9
105-109	814	0	0	******	1556	0	0	******	1276	1	8	4.4	424	3	71	14.2
110-114	612	0	0	******	1188	1	8	******	1070	1	9	4.6	290	0	0	14.5
115-119	488	0	0	******	880	1	11	******	798	0	0	4.9	252	1	40	14.8
120-124	314	0	0	******	620	0	0	******	588	1	17	5.2	214	0	0	15.2
125-226	812	0	0	******	1658	0	0	******	1562	1	6	6.5	524	0	0	16.4
UNKNOWN	106	0			96	0			32	0			10	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.006	*******	0.031	0.011	*******	0.004
SE(B)	******	******	0.022	******	0.016	0.020	******	0.023
A	*******	*******	-6.902	*******	-8.429	-8.230	*******	-6.334

TABLE 6-9-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	11	9	6	13	10	7	1091	1124	1081	2	1	1	2	1	1
05-14	1	0	1	0	0	0	0	****	0	9	11	7	0	0	0	0	0	0
15-19	1	5	3	0	0	0	0	0	0	60	46	28	0	0	0	0	0	0
20-24	12	13	10	0	0	0	0	0	0	234	190	189	1	0	0	4	0	0
25-29	43	45	30	1	1	0	23	22	0	414	476	411	1	1	1	2	2	2
30-34	155	124	133	2	1	0	13	8	0	284	309	332	0	0	0	0	0	0
35-39	247	256	244	1	2	2	4	8	8	70	81	96	0	0	0	0	0	0
40-44	235	260	255	3	3	3	13	12	12	10	7	15	0	0	0	0	0	0
45-49	116	119	141	4	1	1	34	8	7	2	2	1	0	0	0	0	0	0
50-54	33	38	56	0	1	0	0	26	0	1	0	0	0	0	0	0	****	****
55-61	5	7	9	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
UNKNOWN	10	2	1	0	0	0				7	2	2	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	27	20	18	38	27	25	870	891	925	8	5	4	9	6	4
05-14	1	1	0	0	0	0	0	0	****	19	29	22	0	1	0	0	34	0
15-19	3	5	4	0	0	0	0	0	0	107	116	88	4	2	2	37	17	23
20-24	24	15	17	0	0	0	0	0	0	326	300	306	4	2	2	12	7	7
25-29	73	71	81	6	1	1	82	14	12	274	308	333	0	0	0	0	0	0
30-34	170	199	191	7	5	5	41	25	26	122	121	152	0	0	0	0	0	0
35-39	220	229	208	4	8	7	18	35	34	16	15	22	0	0	0	0	0	0
40-44	142	154	148	8	5	3	56	32	20	2	1	2	0	0	0	0	0	0
45-49	52	43	48	2	1	1	38	23	21	0	0	0	0	0	0	****	****	****
50-54	15	11	11	0	0	1	0	0	91	0	0	0	0	0	0	****	****	****
55-61	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
UNKNOWN	3	0	1	0	0	0				4	1	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	7	10	10	21	22	19	426	592	701	6	10	9	14	17	13
05-14	0	3	4	0	0	1	****	0	250	26	44	52	0	0	0	0	0	0
15-19	3	12	7	1	1	0	333	83	0	82	140	148	0	4	4	0	29	27
20-24	18	34	37	0	0	1	0	0	27	203	247	295	4	2	2	20	8	7
25-29	66	80	99	2	4	4	30	50	40	82	137	160	2	4	3	24	29	19
30-34	103	126	154	2	3	2	19	24	13	24	21	40	0	0	0	0	0	0
35-39	91	133	155	1	2	0	11	15	0	4	2	5	0	0	0	0	0	0
40-44	34	45	57	1	0	2	29	0	35	0	0	0	0	0	0	****	****	****
45-49	8	13	12	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
50-54	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
55-61	0	0	0	0	0	0	****	****	****	0	0	0	0	0	0	****	****	****
UNKNOWN	6	3	2	0	0	0				5	1	1	0	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.019	0.010	0.044
SE(B)	0.047	0.052	0.064
A	-5.081	-4.936	-6.784
WOMEN			
B	**********	**********	**********
SE(B)	******	******	******
A	**********	**********	**********
AGE 45-54 AT EXAM			
MEN			
B	-0.023	0.016	0.026
SE(B)	0.029	0.036	0.037
A	-2.411	-4.139	-4.596
WOMEN			
B	-0.171	-0.213	*******
SE(B)	0.069	0.079	******
A	-0.877	-0.643	*******
AGE 55-64 AT EXAM			
MEN			
B	-0.098	-0.071	-0.080
SE(B)	0.069	0.046	0.047
A	-0.722	-1.578	-1.455
WOMEN			
B	0.049	-0.016	-0.029
SE(B)	0.083	0.064	0.064
A	-5.329	-3.731	-3.726

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 6-9-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	12	10		8172	22	27		2328	3	13	
05-14	6	0	0	******	10	0	0	11.2	26	0	0	61.4	14	0	0	******
15-19	28	0	0	******	72	1	139	10.9	112	2	179	49.0	76	0	0	******
20-24	98	0	0	******	290	0	0	10.6	462	1	22	41.0	256	0	0	******
25-29	334	1	30	******	1060	0	0	10.4	1440	6	42	33.7	570	1	18	******
30-34	1306	0	0	******	2698	1	4	10.2	2322	4	17	28.0	776	1	13	******
35-39	2374	1	4	******	3654	6	16	10.0	2322	5	22	23.2	456	1	22	******
40-44	2520	1	4	******	2726	3	11	9.9	1082	2	18	19.3	134	0	0	******
45-49	1352	0	0	******	1072	1	9	9.7	294	1	34	15.9	28	0	0	******
50-54	598	0	0	******	298	0	0	9.5	74	1	135	13.0	4	0	0	******
55-61	124	0	0	******	60	0	0	9.3	10	0	0	11.2	2	0	0	******
UNKNOWN	24	0			6	0			28	0			12	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
05-14	52	0	0	******	206	0	0	******	502	0	0	21.1	390	1	26	40.4
15-19	352	0	0	******	1176	0	0	******	2074	3	14	7.6	1026	2	19	17.4
20-24	1764	0	0	******	4404	2	5	******	4764	2	4	3.7	1456	1	7	9.3
25-29	4284	0	0	******	5890	1	2	******	3020	0	0	1.8	558	1	18	4.8
30-34	3218	0	0	******	3092	0	0	******	786	0	0	0.8	98	0	0	2.4
35-39	1050	0	0	******	564	0	0	******	96	0	0	0.4	4	0	0	1.4
40-44	142	0	0	******	56	0	0	******	2	0	0	0.2	0	0	*****	******
45-49	16	0	0	******	8	0	0	******	2	0	0	0.1	0	0	*****	******
50-54	0	0	*****	******	0	0	*****	******	0	0	*****	******	0	0	*****	******
55-61	2	0	0	******	0	0	*****	******	0	0	*****	******	0	0	*****	******
UNKNOWN	32	0			14	0			12	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.004	*******	-0.039	-0.160	*******	-0.143
SE(B)	******	******	0.043	******	0.032	0.081	******	0.087
A	*******	*******	-6.060	*******	-3.917	-3.730	*******	-3.210

TABLE 6-10-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	11	9	6	13	10	7	1091	1124	1081	2	1	1	2	1	1
NONE	0	119	116	0	2	1	****	17	9	0	329	308	0	0	0	****	0	0
000-009	0	252	270	0	0	0	****	0	0	0	448	442	0	1	1	****	2	2
010-019	0	128	126	0	2	2	****	16	16	0	101	98	0	0	0	****	0	0
020-029	0	75	74	0	2	1	****	27	14	0	60	55	0	0	0	****	0	0
030-039	0	45	53	0	1	1	****	22	19	0	35	32	0	0	0	****	0	0
040-049	0	45	44	0	0	0	****	0	0	0	15	13	0	0	0	****	0	0
050-059	0	26	26	0	1	1	****	38	38	0	8	7	0	0	0	****	0	0
060-069	0	23	21	0	0	0	****	0	0	0	21	22	0	0	0	****	0	0
070-079	0	17	16	0	0	0	****	0	0	0	5	5	0	0	0	****	0	0
080-457	0	57	56	0	0	0	****	0	0	0	10	9	0	0	0	****	0	0
UNKNOWN	858	82	81	11	1	0				1091	92	90	2	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	27	20	18	38	27	25	870	891	925	8	5	4	9	6	4
NONE	0	133	121	0	3	2	****	23	17	0	369	361	0	1	1	****	3	3
000-009	0	201	197	0	5	3	****	25	15	0	309	337	0	2	2	****	6	6
010-019	0	77	76	0	1	1	****	13	13	0	53	54	0	0	0	****	0	0
020-029	0	55	60	0	1	2	****	18	33	0	34	38	0	0	0	****	0	0
030-039	0	62	59	0	3	3	****	48	51	0	30	34	0	2	1	****	67	29
040-049	0	34	33	0	0	0	****	0	0	0	16	17	0	0	0	****	0	0
050-059	0	27	23	0	1	0	****	37	0	0	4	3	0	0	0	****	0	0
060-069	0	23	30	0	2	2	****	87	67	0	7	10	0	0	0	****	0	0
070-079	0	6	7	0	0	0	****	0	0	0	1	1	0	0	0	****	0	0
080-457	0	47	40	0	0	0	****	0	0	0	7	7	0	0	0	****	0	0
UNKNOWN	705	65	65	27	4	5				870	61	63	8	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	7	10	10	21	22	19	426	592	701	6	10	9	14	17	13
NONE	0	99	115	0	4	3	****	40	26	0	294	342	0	5	3	****	17	9
000-009	0	135	154	0	2	3	****	15	19	0	178	213	0	3	3	****	17	14
010-019	0	36	51	0	1	1	****	28	20	0	19	32	0	0	0	****	0	0
020-029	0	21	27	0	0	0	****	0	0	0	20	25	0	1	1	****	50	40
030-039	0	33	39	0	1	1	****	30	26	0	19	20	0	0	1	****	0	50
040-049	0	19	24	0	0	0	****	0	0	0	5	7	0	0	0	****	0	0
050-059	0	10	13	0	0	0	****	0	0	0	2	4	0	0	0	****	0	0
060-069	0	7	7	0	1	1	****	143	143	0	0	0	0	0	0	****	****	****
070-079	0	11	11	0	0	0	****	0	0	0	2	1	0	0	0	****	0	0
080-457	0	34	43	0	1	1	****	29	23	0	5	5	0	0	0	****	0	0
UNKNOWN	330	45	47	7	0	0				426	48	52	6	1	1			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B*******	-0.005	-0.003	
SE(B)******	0.012	0.012	
A*******	-4.462	-4.829	
WOMEN			
B*******	**********	**********	
SE(B)******	******	******	
A*******	**********	**********	
AGE 45-54 AT EXAM			
MEN			
B*******	-0.003	-0.002	
SE(B)******	0.008	0.009	
A*******	-3.644	-3.851	
WOMEN			
B*******	0.021	*******	
SE(B)******	0.017	******	
A*******	-5.305	*******	
AGE 55-64 AT EXAM			
MEN			
B*******	-0.001	-0.000	
SE(B)******	0.008	0.008	
A*******	-3.661	-3.954	
WOMEN			
B*******	-0.027	0.005	
SE(B)******	0.048	0.019	
A*******	-3.991	-4.417	

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 6-10-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	12	10		8172	22	27		2328	3	13	
NONE	996	1	10	******	1754	2	11	8.6	1666	6	36	28.6	504	1	20	******
000-009	2250	1	4	******	2924	4	14	8.7	2064	3	15	28.3	638	1	16	******
010-019	1030	0	0	******	1252	0	0	9.1	740	3	41	27.4	210	0	0	******
020-029	590	0	0	******	812	1	12	9.5	476	1	21	26.4	164	0	0	******
030-039	434	0	0	******	866	0	0	9.9	572	2	35	25.7	180	1	56	******
040-049	366	0	0	******	588	0	0	10.4	414	0	0	24.7	104	0	0	******
050-059	156	1	64	******	256	0	0	10.8	170	0	0	23.9	68	0	0	******
060-069	262	0	0	******	486	1	21	11.2	322	3	93	23.2	88	0	0	******
070-079	140	0	0	******	242	0	0	11.8	144	1	69	22.3	44	0	0	******
080-457	544	0	0	******	954	2	21	15.0	588	0	0	19.3	196	0	0	******
UNKNOWN	1996	0			1812	2			1016	3			132	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
NONE	2518	0	0	******	4550	1	2	******	4830	2	4	4.1	1828	2	11	******
000-009	3744	0	0	******	5350	2	4	******	3386	1	3	4.3	966	2	21	******
010-019	850	0	0	******	1040	0	0	******	462	0	0	5.2	152	0	0	******
020-029	456	0	0	******	628	0	0	******	380	0	0	6.0	154	0	0	******
030-039	384	0	0	******	728	0	0	******	482	1	21	7.1	136	0	0	******
040-049	136	0	0	******	268	0	0	******	168	0	0	8.7	54	0	0	******
050-059	66	0	0	******	88	0	0	******	62	0	0	10.2	14	0	0	******
060-069	204	0	0	******	324	0	0	******	112	1	89	12.0	28	0	0	******
070-079	46	0	0	******	94	0	0	******	34	0	0	15.4	16	0	0	******
080-457	94	0	0	******	186	0	0	******	126	0	0	30.3	10	0	0	******
UNKNOWN	2414	0			2154	0			1216	0			174	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.004	*******	-0.003	0.018	*******	*******
SE(B)	******	******	0.006	******	0.007	0.011	******	******
A	*******	*******	-6.361	*******	-5.157	-7.111	*******	*******

TABLE 6-11-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	11	9	6	13	10	7	1091	1124	1081	2	1	1	2	1	1	
																			MEN
NONE	242	242	255	0	0	0	0	0	0	531	522	494	0	0	0	0	0	0	B 0.804 0.735 0.736
UNDER 20	147	144	139	2	2	1	14	14	7	356	376	371	1	1	1	3	3	3	SE(B) 0.352 0.377 0.460
20	252	253	258	3	2	2	12	8	8	152	173	163	0	0	0	0	0	0	A -5.924 -5.996 -6.421
OVER 20	213	224	226	6	5	3	28	22	13	44	47	47	1	0	0	23	0	0	
																			WOMEN
UNKNOWN	4	6	5	0	0	0				8	6	6	0	0	0				B 1.342**********
																			SE(B) 0.746 ****** ******
																			A -8.091**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	27	20	18	38	27	25	870	891	925	8	5	4	9	6	4	
																			MEN
NONE	271	266	258	7	4	4	26	15	16	593	576	560	7	3	3	12	5	5	B 0.179 0.280 0.286
UNDER 20	111	114	112	9	6	5	81	53	45	178	205	234	0	0	0	0	0	0	SE(B) 0.165 0.195 0.205
20	169	185	176	1	2	1	6	11	6	70	78	97	1	1	0	14	13	0	A -3.462 -3.980 -4.076
OVER 20	147	157	158	10	8	8	68	51	51	23	29	31	0	1	1	0	34	32	
																			WOMEN
UNKNOWN	7	8	7	0	0	0				6	3	3	0	0	0				B -0.467 0.583 0.248
																			SE(B) 0.638 0.431 0.547
																			A -4.514 -5.598 -5.598
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	7	10	10	21	22	19	426	592	701	6	10	9	14	17	13	
																			MEN
NONE	160	214	231	2	3	2	13	14	9	338	454	518	5	9	7	15	20	14	B 0.305 0.341 0.356
UNDER 20	65	84	106	2	3	4	31	36	38	62	94	125	0	0	0	0	0	0	SE(B) 0.339 0.279 0.281
20	68	96	122	2	1	1	29	10	8	16	29	38	0	0	1	0	0	26	A -4.158 -4.182 -4.403
OVER 20	34	54	70	1	3	3	29	56	43	8	11	16	0	0	0	0	0	0	
																			WOMEN
UNKNOWN	3	2	2	0	0	0				2	4	4	1	1	1				B********** -0.275
																			SE(B)****** ****** 0.625
																			A********** -4.373

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 6-11-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	12	10		8172	22	27		2328	3	13	
NONE	2708	0	0	0.8	4440	0	0	2.8	3920	7	18	21.0	1380	0	0	5.6
UNDER 20	1376	1	7	1.7	1710	2	12	5.7	1360	6	44	26.1	430	2	47	11.5
20	2378	0	0	3.6	2868	5	17	11.4	1592	4	25	32.3	288	0	0	23.4
OVER 20	2250	2	9	7.5	2864	5	17	22.7	1260	5	40	40.1	222	1	45	47.4
UNKNOWN	52	0			64	0			40	0			8	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
NONE	5010	0	0	******	8710	1	1	0.7	8024	4	5	4.5	2824	4	14	******
UNDER 20	3482	0	0	******	3664	0	0	1.7	1906	0	0	4.3	492	0	0	******
20	1734	0	0	******	2144	1	5	4.2	838	1	12	4.1	142	0	0	******
OVER 20	628	0	0	******	830	1	12	10.3	386	0	0	3.9	56	0	0	******
UNKNOWN	58	0			62	0			44	0			18	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	0.735	*******	0.693	0.895	0.216	-0.048	0.712	*******
SE(B)	0.635	******	0.292	0.527	0.179	0.597	0.482	******
A	-8.708	*******	-7.470	-8.870	-5.466	-7.001	-6.785	*******

TABLE 6-12-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: ALBUMIN IN URINE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	11	9	6	13	10	7	1091	1124	1081	2	1	1	2	1	1	
																			MEN
NO	816	857	865	9	8	6	11	9	7	988	1079	1031	2	1	1	2	1	1	8 0.739**********
POSSIBLE	2	0	3	0	0	0	0	****	0	7	1	5	0	0	0	0	0	0	SE(B) 0.542 ****** ******
DEFINITE	21	6	11	1	0	0	48	0	0	72	40	42	0	0	0	0	0	0	A -4.499**********
UNKNOWN	19	6	4	1	1	0				24	4	3	0	0	0				WOMEN
																			8**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	27	20	18	38	27	25	870	891	925	8	5	4	9	6	4	
																			MEN
NO	671	718	702	25	20	17	37	28	24	794	854	880	7	5	4	9	6	5	B 0.420******* 0.808
POSSIBLE	1	0	0	0	0	0	0	****	****	7	4	6	0	0	0	0	0	0	SE(B) 0.384 ****** 0.544
DEFINITE	24	10	9	2	0	1	83	0	111	59	31	38	1	0	0	17	0	0	A -3.253******* -3.696
UNKNOWN	9	2	0	0	0	0				10	2	1	0	0	0				WOMEN
																			8 0.312**********
																			SE(B) 0.545 ****** ******
																			A -4.728**********
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	7	10	10	21	22	19	426	592	701	6	10	9	14	17	13	
																			MEN
NO	308	433	509	6	9	9	19	21	18	396	570	672	5	10	9	13	18	13	B 0.668 0.674 0.236
POSSIBLE	1	1	5	0	0	1	0	0	200	0	1	2	0	0	0	****	0	0	SE(B) 0.561 0.550 0.760
DEFINITE	14	13	15	1	1	0	71	77	0	22	17	24	1	0	0	45	0	0	A -3.922 -3.855 -3.969
UNKNOWN	7	3	2	0	0	0				8	4	3	0	0	0				WOMEN
																			8 0.657**********
																			SE(B) 0.559 ****** ******
																			A -4.359**********

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 6-12-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: ALBUMIN IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	12	10		8172	22	27		2328	3	13	
NO	8532	3	4	******	11668	12	10	******	7752	21	27	27.0	2186	2	9	11.4
POSSIBLE	20	0	0	******	42	0	0	******	74	0	0	27.8	16	1	625	21.4
DEFINITE	138	0	0	******	200	0	0	******	314	1	32	28.6	120	0	0	40.2
UNKNOWN	74	0			36	0			32	0			6	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
NO	10332	0	0	******	14710	3	2	******	10774	4	4	4.1	3364	4	12	11.7
POSSIBLE	88	0	0	******	132	0	0	******	112	1	89	7.6	32	0	0	30.4
DEFINITE	420	0	0	******	530	0	0	******	332	0	0	13.8	122	1	82	78.0
UNKNOWN	72	0			38	0			40	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	*******	*******	0.029	0.603	0.635	0.953
SE(B)	******	******	******	******	0.528	0.764	0.785	0.571
A	*******	*******	*******	*******	-5.218	-7.096	-6.085	-6.051

TABLE 6-13-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: SUGAR IN URINE

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	11	9	6	13	10	7	1091	1124	1081	2	1	1	2	1	1	
																			MEN
NO	818	859	873	9	8	6	11	9	7	1055	1116	1073	1	1	1	1	1	1	B 0.692**********
POSSIBLE	13	2	0	1	0	0	77	0	****	7	0	0	0	0	0	0	****	****	SE(B) 0.805 ****** ******
DEFINITE	8	2	6	0	0	0	0	0	0	5	4	5	1	0	0	200	0	0	A -4.460**********
UNKNOWN	19	6	4	1	1	0				24	4	3	0	0	0				WOMEN
																			B 2.781**********
																			SE(B) 0.767 ****** ******
																			A -7.012**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	27	20	18	38	27	25	870	891	925	8	5	4	9	6	4	
																			MEN
NO	665	704	689	25	19	17	38	27	25	840	879	913	8	5	4	10	6	4	B 0.433 0.422 0.524
POSSIBLE	20	11	10	1	0	0	50	0	0	11	1	1	0	0	0	0	0	0	SE(B) 0.489 0.562 0.562
DEFINITE	11	13	12	1	1	1	91	77	83	9	9	10	0	0	0	0	0	0	A -3.245 -3.597 -3.689
UNKNOWN	9	2	0	0	0	0				10	2	1	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	7	10	10	21	22	19	426	592	701	6	10	9	14	17	13	
																			MEN
NO	309	437	512	6	9	9	19	21	18	404	572	684	6	10	9	15	17	13	B 0.613 0.879 0.733
POSSIBLE	9	1	4	1	0	0	111	0	0	5	4	1	0	0	0	0	0	0	SE(B) 0.835 0.559 0.556
DEFINITE	5	9	13	0	1	1	0	111	77	9	12	13	0	0	0	0	0	0	A -3.867 -3.865 -4.031
UNKNOWN	7	3	2	0	0	0				8	4	3	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 6-13-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: SUGAR IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	12	10		8172	22	27		2328	3	13	
NO	8586	3	3	******	11618	11	9	9.4	7870	21	27	26.6	2214	1	5	4.4
POSSIBLE	44	0	0	******	106	0	0	21.1	52	0	0	33.4	14	0	0	31.0
DEFINITE	68	0	0	******	188	1	53	47.3	218	1	46	41.9	94	2	213	210.5
UNKNOWN	66	0			34	0			32	0			6	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
NO	10762	0	0	******	15202	2	1	1.3	11016	5	5	******	3456	4	12	11.5
POSSIBLE	16	0	0	******	44	0	0	10.0	48	0	0	******	10	0	0	47.0
DEFINITE	62	0	0	******	128	1	78	76.4	158	0	0	******	52	1	192	187.8
UNKNOWN	72	0			36	0			36	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	0.813	2.044	0.229	*******	1.953	1.414
SE(B)	******	******	0.541	0.621	0.526	******	0.622	0.572
A	*******	*******	-6.278	-8.254	-5.232	*******	-7.030	-6.072

TABLE 6-14-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	11	9	6	13	10	7	1091	1124	1081	2	1	1	2	1	1
NO	765	770	806	9	8	5	12	10	6	951	1017	1011	1	1	1	1	1	1
POSSIBLE	26	34	41	0	0	1	0	0	24	55	39	36	1	0	0	18	0	0
DEFINITE	63	64	36	2	1	0	32	16	0	81	67	33	0	0	0	0	0	0
UNKNOWN	4	1	0	0	0	0				4	1	1	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	27	20	18	38	27	25	870	891	925	8	5	4	9	6	4
NO	561	634	629	21	17	14	37	27	22	620	673	747	3	3	2	5	4	3
POSSIBLE	22	39	41	1	1	2	45	26	49	59	76	100	2	1	0	34	13	0
DEFINITE	118	57	41	5	2	2	42	35	49	185	142	78	3	1	2	16	7	26
UNKNOWN	4	0	0	0	0	0				6	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	7	10	10	21	22	19	426	592	701	6	10	9	14	17	13
NO	241	349	436	4	5	6	17	14	14	250	356	455	3	3	2	12	8	4
POSSIBLE	15	41	45	0	1	1	0	24	22	34	76	107	1	0	1	29	0	9
DEFINITE	73	60	50	3	4	3	41	67	60	138	160	139	2	7	6	14	44	43
UNKNOWN	1	0	0	0	0	0				4	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.456	0.111	0.176
SE(B)	0.411	0.565	0.817
A	-4.457	-4.581	-5.011
WOMEN			
B	0.627**********		
SE(B)	0.864 ******	******	
A	-6.503**********		
AGE 45-54 AT EXAM			
MEN			
B	0.069	0.119	0.463
SE(B)	0.250	0.369	0.351
A	-3.244	-3.597	-3.763
WOMEN			
B	0.612	0.303	1.139
SE(B)	0.371	0.522	0.553
A	-5.121	-5.328	-6.110
AGE 55-64 AT EXAM			
MEN			
B	0.457	0.792	0.748
SE(B)	0.398	0.347	0.365
A	-4.130	-4.256	-4.294
WOMEN			
B	0.115	0.910	1.196
SE(B)	0.436	0.377	0.418
A	-4.329	-5.003	-5.526

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 6-14-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	12	10		8172	22	27		2328	3	13	
NO	7978	3	4	******	10198	9	9	9.3	6360	14	22	19.7	1564	2	13	14.8
POSSIBLE	358	0	0	******	856	2	23	12.4	828	0	0	36.1	362	1	28	10.6
DEFINITE	418	0	0	******	886	1	11	16.6	982	8	81	66.2	402	0	0	7.7
UNKNOWN	10	0			6	0			2	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
NO	10064	0	0	******	12536	2	2	1.4	7168	2	3	2.8	1734	1	6	6.2
POSSIBLE	368	0	0	******	1346	0	0	2.8	1816	1	6	5.1	650	1	15	12.9
DEFINITE	466	0	0	******	1522	1	7	5.3	2266	2	9	9.0	1148	3	26	26.8
UNKNOWN	14	0			6	0			8	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.291	0.654	0.612	0.576	-0.329	0.732
SE(B)	******	******	0.423	0.661	0.241	0.495	0.884	0.546
A	*******	*******	-6.287	-8.148	-5.535	-7.471	-5.823	-6.687

TABLE 6-15-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	11	9	6	13	10	7	1091	1124	1081	2	1	1	2	1	1	
																			MEN
NO	834	836	853	10	9	6	12	11	7	1081	1105	1062	2	1	1	2	1	1	B 1.026**********
POSSIBLE	15	25	25	0	0	0	0	0	0	7	15	15	0	0	0	0	0	0	SE(B) 0.584 ****** ******
DEFINITE	9	8	5	1	0	0	111	0	0	3	4	4	0	0	0	0	0	0	A -4.436**********
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	27	20	18	38	27	25	870	891	925	8	5	4	9	6	4	
																			MEN
NO	672	685	664	21	15	13	31	22	20	839	848	889	8	5	4	10	6	4	B 1.313 1.142 1.223
POSSIBLE	18	24	27	1	1	1	56	42	37	15	30	25	0	0	0	0	0	0	SE(B) 0.291 0.306 0.313
DEFINITE	15	21	20	5	4	4	333	190	200	16	13	11	0	0	0	0	0	0	A -3.456 -3.818 -3.940
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	7	10	10	21	22	19	426	592	701	6	10	9	14	17	13	
																			MEN
NO	300	405	477	4	4	5	13	10	10	410	537	629	5	7	7	12	13	11	B 1.358 1.591 1.521
POSSIBLE	13	24	27	0	2	0	0	83	0	6	32	41	1	0	0	167	0	0	SE(B) 0.421 0.360 0.352
DEFINITE	17	21	27	3	4	5	176	190	185	10	23	31	0	3	2	0	130	65	A -4.383 -4.514 -4.667
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 0.602 1.137 0.800
																			SE(B) 0.785 0.387 0.444
																			A -4.311 -4.415 -4.557

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 6-15-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	12	10		8172	22	27		2328	3	13	
NO	8462	3	4	******	11202	11	10	9.5	7316	12	16	15.7	1994	1	5	6.5
POSSIBLE	242	0	0	******	500	0	0	15.4	508	2	39	58.9	182	1	55	23.5
DEFINITE	60	0	0	******	244	1	41	25.2	348	8	230	215.6	152	1	66	84.6
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
NO	10720	0	0	******	14892	3	2	******	10258	5	5	******	3066	3	10	10.3
POSSIBLE	136	0	0	******	378	0	0	******	632	0	0	******	278	1	36	25.1
DEFINITE	56	0	0	******	140	0	0	******	368	0	0	******	188	1	53	61.2
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	0.490	*******	1.330	*******	1.295	0.897
SE(B)	******	******	0.589	******	0.237	******	0.626	0.537
A	*******	*******	-6.267	*******	-5.759	*******	-6.652	-6.185

TABLE 6-16-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	11	9	6	13	10	7	1091	1124	1081	2	1	1	2	1	1
NO	840	851	859	11	9	6	13	11	7	1074	1109	1068	1	1	1	1	1	1
YES	18	18	24	0	0	0	0	0	0	17	15	13	1	0	0	59	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	27	20	18	38	27	25	870	891	925	8	5	4	9	6	4
NO	684	709	687	25	19	18	37	27	26	849	858	894	6	5	4	7	6	4
YES	21	21	24	2	1	0	95	48	0	21	33	31	2	0	0	95	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	7	10	10	21	22	19	426	592	701	6	10	9	14	17	13
NO	320	431	501	7	9	8	22	21	16	414	561	653	5	7	6	12	12	9
YES	10	19	30	0	1	2	0	53	67	12	31	48	1	3	3	83	97	63
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	**********		
SE(B)	******	******	******
A	**********		
WOMEN			
B	4.206	**********	
SE(B)	1.436	******	******
A	-6.978	**********	
AGE 45-54 AT EXAM			
MEN			
B	1.021	0.597	*******
SE(B)	0.771	1.051	******
A	-3.272	-3.592	*******
WOMEN			
B	2.694	**********	
SE(B)	0.849	******	******
A	-4.945	**********	
AGE 55-64 AT EXAM			
MEN			
B	*******	0.957	1.482
SE(B)	******	1.081	0.814
A	*******	-3.848	-4.121
WOMEN			
B	2.006	2.138	1.973
SE(B)	1.137	0.717	0.724
A	-4.404	-4.371	-4.681

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 6-16-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	12	10		8172	22	27		2328	3	13	
ND	8552	3	4	3.5	11436	11	10	9.6	7684	20	26	26.0	2142	1	5	4.7
YES	212	0	0	0.0	510	1	20	19.6	488	2	41	41.0	186	2	108	107.5
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
ND	10720	0	0	0.0	14896	2	1	1.3	10606	4	4	3.8	3260	3	9	9.2
YES	192	0	0	0.0	514	1	19	19.5	652	1	15	15.3	272	2	74	73.5
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.714	2.677	0.457	1.405	3.158	2.091
SE(B)	******	******	1.046	1.226	0.745	1.119	1.230	0.917
A	*******	*******	-6.252	-8.222	-5.253	-7.189	-6.975	-6.296

TABLE 6-17-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: DIABETES MELLITUS

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	11	9	6	13	10	7	1091	1124	1081	2	1	1	2	1	1	
																			MEN
NO	846	859	873	11	9	6	13	10	7	1083	1118	1075	1	1	1	1	1	1	B**********
YES	12	10	10	0	0	0	0	0	0	8	6	6	1	0	0	125	0	0	SE(B)****** ****** ******
																			A**********
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 5.041**********
																			SE(B) 1.464 ****** ******
																			A -6.987**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	27	20	18	38	27	25	870	891	925	8	5	4	9	6	4	
																			MEN
NO	683	705	690	24	18	16	35	26	23	849	876	904	7	4	3	8	5	3	B 1.467 1.200 1.489
YES	22	25	21	3	2	2	136	80	95	21	15	21	1	1	1	48	67	48	SE(B) 0.655 0.775 0.785
																			A -3.313 -3.642 -3.741
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 1.794 2.745 2.709
																			SE(B) 1.093 1.150 1.177
																			A -4.790 -5.384 -5.705
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	7	10	10	21	22	19	426	592	701	6	10	9	14	17	13	
																			MEN
NO	316	432	510	7	9	9	22	21	18	414	567	673	6	9	8	14	16	12	B******* 1.017 1.024
YES	14	18	21	0	1	1	0	56	48	12	25	28	0	1	1	0	40	36	SE(B)****** 1.083 1.078
																			A******* -3.850 -4.019
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B******* 0.949 1.125
																			SE(B)****** 1.075 1.079
																			A******* -4.127 -4.420

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 6-17-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: DIABETES MELLITUS

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	12	10		8172	22	27		2328	3	13	
NO	8674	3	3	3.5	11602	11	9	9.5	7784	21	27	27.0	2172	2	9	9.2
YES	90	0	0	0.0	344	1	29	29.1	388	1	26	25.8	156	1	64	64.1
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
NO	10838	0	0	0.0	15144	2	1	1.3	10856	5	5	4.6	3330	4	12	12.0
YES	74	0	0	0.0	266	1	38	37.6	402	0	0	0.0	202	1	50	49.5
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	1.124	3.356	-0.046	*******	1.951	1.424
SE(B)	******	******	1.047	1.228	1.026	******	1.230	1.123
A	*******	*******	-6.266	-8.239	-5.217	*******	-6.295	-6.029

TABLE 6-18-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HYPERTENSION

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	11	9	6	13	10	7	1091	1124	1081	2	1	1	2	1	1	
																			MEN
NO	379	499	593	5	5	2	13	10	3	707	872	870	2	1	1	3	1	1	B 0.039 -0.232 0.754
BORDER	351	262	209	4	4	3	11	15	14	291	187	168	0	0	0	0	0	0	SE(B) 0.424 0.515 0.507
DEFINITE	128	108	81	2	0	1	16	0	12	93	65	43	0	0	0	0	0	0	A -4.372 -4.445 -5.445
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	27	20	18	38	27	25	870	891	925	8	5	4	9	6	4	
																			MEN
NO	281	369	389	1	4	6	4	11	15	306	415	506	0	2	1	0	5	2	B 0.948 0.478 0.481
BORDER	262	236	213	15	13	8	57	55	38	357	298	256	5	2	2	14	7	8	SE(B) 0.272 0.284 0.297
DEFINITE	162	125	109	11	3	4	68	24	37	207	178	163	3	1	1	14	6	6	A -4.263 -3.953 -4.006
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 0.882 0.109 0.569
																			SE(B) 0.505 0.571 0.603
																			A -5.680 -5.261 -5.899
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	7	10	10	21	22	19	426	592	701	6	10	9	14	17	13	
																			MEN
NO	119	201	273	2	1	3	17	5	11	101	160	252	1	1	1	10	6	4	B 0.931 0.702 0.508
BORDER	125	153	157	0	6	4	0	39	25	176	228	247	2	3	4	11	13	16	SE(B) 0.545 0.409 0.388
DEFINITE	86	96	101	5	3	3	58	31	30	149	204	202	3	6	4	20	29	20	A -4.919 -4.471 -4.376
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 0.409 0.798 0.658
																			SE(B) 0.575 0.478 0.446
																			A -4.749 -5.097 -5.088

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 6-18-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HYPERTENSION

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	12	10		8172	22	27		2328	3	13	
NO	5204	2	4	4.2	6210	2	3	6.4	3742	6	16	18.2	932	1	11	5.0
BORDER	2568	1	4	2.6	3664	8	22	11.1	2618	9	34	28.1	886	0	0	12.0
DEFINITE	992	0	0	1.6	2072	2	10	19.2	1812	7	39	43.2	510	2	39	28.8
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
NO	8326	0	0	******	8578	2	2	2.5	4070	0	0	2.8	840	0	0	3.7
BORDER	1960	0	0	******	4456	1	2	1.4	4064	4	10	4.3	1404	2	14	9.8
DEFINITE	626	0	0	******	2376	0	0	0.8	3124	1	3	6.8	1288	3	23	25.7
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	-0.462	*******	0.550	-0.591	0.433	0.451	0.876	0.969
SE(B)	1.003	******	0.355	0.975	0.262	0.574	0.791	0.741
A	-7.091	*******	-6.660	-7.581	-5.610	-7.503	-6.904	-7.202

TABLE 6-19-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: GLUCOSE INTOLERANCE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	11	9	6	13	10	7	1091	1124	1081	2	1	1	2	1	1	
																			MEN
NO	820	850	864	10	8	6	12	9	7	1068	1108	1062	1	1	1	1	1	1	B C.784 1.766*******
YES	38	19	19	1	1	0	26	53	0	23	16	19	1	C	0	43	C	0	SE(B) 1.062 1.087 ******
																			A -4.394 -4.656*******
UNKNOWN	0	0	0	0	0	C				0	0	0	C	0	0				
																			WOMEN
																			B 3.882**********
																			SE(B) 1.431 ****** ******
																			A -6.973**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	27	20	18	38	27	25	870	891	925	8	5	4	9	6	4	
																			MEN
NO	657	680	672	22	18	16	33	26	24	830	866	892	7	4	3	8	5	3	B 1.211 0.427 0.796
YES	48	50	39	5	2	2	104	40	51	40	25	33	1	1	1	25	40	30	SE(B) C.520 C.760 0.769
																			A -3.363 -3.605 -3.714
UNKNOWN	0	0	0	0	0	0				0	C	C	0	C	0				
																			WOMEN
																			B 1.103 2.195 2.226
																			SE(B) 1.082 1.137 1.169
																			A -4.767 -5.373 -5.691
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	7	10	10	21	22	19	426	592	701	6	10	9	14	17	13	
																			MEN
NO	304	423	492	6	9	9	20	21	18	395	552	653	6	9	7	15	16	11	B C.686 C.571 0.345
YES	26	27	39	1	1	1	38	37	26	31	40	48	0	1	2	0	25	42	SE(B) 1.100 1.073 1.067
																			A -3.905 -3.829 -3.983
UNKNOWN	0	0	0	0	0	0				0	C	0	C	C	0				
																			WOMEN
																			B******* 0.436 1.389
																			SE(B)****** 1.067 0.816
																			A******* -4.100 -4.525

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 6-19-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: SUDDEN AND UNEXPECTED DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: GLUCOSE INTOLERANCE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	3	3		11946	12	10		8172	22	27		2328	3	13	
NO	8504	3	4	3.5	11284	11	10	9.7	7536	21	28	27.9	2098	1	5	4.8
YES	260	0	0	0.0	662	1	15	15.1	636	1	16	15.7	230	2	87	87.0
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	0	0		15410	3	2		11258	5	4		3532	5	14	
NO	10734	0	0	0.0	14926	2	1	1.3	10578	5	5	4.7	3202	4	12	12.5
YES	178	0	0	0.0	484	1	21	20.7	680	0	0	0.0	330	1	30	30.3
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	0.439	2.740	-0.575	*******	2.920	0.890
SE(B)	******	******	1.046	1.226	1.025	******	1.229	1.121
A	*******	*******	-6.238	-8.224	-5.184	*******	-6.955	-5.990

TABLE 7-1-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	12	8	5	14	9	6	1091	1124	1081	3	4	4	3	4	4
074-109	35	71	91	1	1	0	29	14	0	101	204	247	0	0	0	0	0	0
110-119	115	163	190	2	0	2	17	0	11	234	310	312	0	0	0	0	0	0
120-129	183	215	246	2	2	2	11	9	8	279	267	263	1	0	1	4	0	4
130-139	236	203	181	2	3	0	8	15	0	212	180	138	1	1	0	5	6	0
140-149	154	123	99	1	0	1	6	0	10	120	83	66	0	1	1	0	12	15
150-159	56	49	37	2	0	0	36	0	0	68	43	28	1	2	1	15	47	36
160-169	41	22	20	1	0	0	24	0	0	46	17	14	0	0	0	0	0	0
170-179	23	12	9	0	2	0	0	167	0	18	9	6	0	0	0	0	0	0
180-189	7	6	8	1	0	0	143	0	0	6	8	2	0	0	0	0	0	0
190-300	8	5	2	0	0	0	0	0	0	7	3	5	0	0	1	0	0	200
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	26	20	18	37	27	25	870	891	925	6	6	6	7	7	6
074-109	23	49	53	0	1	0	0	20	0	23	50	104	0	0	0	0	0	0
110-119	82	119	134	1	3	4	12	25	30	66	128	163	0	0	0	0	0	0
120-129	145	163	160	4	4	3	28	25	19	140	153	172	0	0	1	0	0	6
130-139	136	163	141	5	4	4	37	25	28	174	178	167	1	0	0	6	0	0
140-149	123	106	105	6	2	3	49	19	29	133	129	103	3	1	1	23	8	10
150-159	76	60	53	2	2	1	26	33	19	109	93	83	0	3	1	0	32	12
160-169	50	30	32	2	0	1	40	0	31	77	60	50	1	2	1	13	33	20
170-179	30	14	18	1	1	1	33	71	56	56	31	39	1	0	2	18	0	51
180-189	18	12	7	1	1	0	56	83	0	41	33	19	0	0	0	0	0	0
190-300	22	14	8	4	2	1	182	143	125	51	36	25	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	20	25	22	61	56	41	426	592	701	16	17	12	38	29	17
074-109	9	24	47	1	1	1	111	42	21	13	17	26	0	0	0	0	0	0
110-119	24	52	75	0	1	0	0	19	0	17	38	54	0	0	0	0	0	0
120-129	51	72	97	1	3	4	20	42	41	40	64	111	1	2	1	25	31	9
130-139	64	97	99	1	1	3	16	10	30	66	84	124	1	1	1	15	12	8
140-149	57	64	63	5	5	3	88	78	48	61	79	90	0	0	0	0	0	0
150-159	49	48	57	3	4	3	61	83	53	65	103	88	4	2	3	62	19	34
160-169	23	36	34	5	3	2	217	83	59	44	70	60	1	6	1	23	86	17
170-179	22	19	17	1	3	1	45	158	59	41	44	55	2	0	0	49	0	0
180-189	11	12	15	0	0	1	0	0	67	24	31	36	4	1	0	167	32	0
190-300	20	26	27	3	4	4	150	154	148	55	62	57	3	5	6	55	81	105
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.011	0.023	-0.006
SE(B)	0.016	0.018	0.029
A	-5.788	-7.748	-4.392
WOMEN			
B	**********	**********	**********
SE(B)	******	******	******
A	**********	**********	**********
AGE 45-54 AT EXAM			
MEN			
B	0.019	0.018	0.015
SE(B)	0.008	0.009	0.011
A	-6.058	-6.038	-5.621
WOMEN			
B	0.005	0.016	0.023
SE(B)	0.013	0.011	0.011
A	-5.737	-7.291	-8.364
AGE 55-64 AT EXAM			
MEN			
B	0.019	0.020	0.020
SE(B)	0.007	0.007	0.007
A	-5.571	-5.712	-5.991
WOMEN			
B	0.018	0.022	0.026
SE(B)	0.007	0.008	0.008
A	-6.225	-7.075	-8.142

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 7-1-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	2	2		11946	7	6		8172	14	17		2328	9	39	
074-109	714	0	0	******	734	1	14	1.5	490	0	0	6.5	120	0	0	17.0
110-119	1696	0	0	******	2010	0	0	2.2	1010	0	0	8.2	202	0	0	21.1
120-129	2260	2	9	******	2586	2	8	3.0	1496	3	20	10.1	326	1	31	24.4
130-139	1980	0	0	******	2598	0	0	4.3	1528	1	7	12.7	430	1	23	29.2
140-149	1130	0	0	******	1704	0	0	6.0	1234	3	24	15.7	394	3	76	34.3
150-159	510	0	0	******	1052	1	10	8.5	878	1	11	19.7	312	0	0	40.3
160-169	244	0	0	******	578	0	0	11.9	556	2	36	24.3	202	1	50	47.1
170-179	128	0	0	******	306	1	33	16.7	390	2	51	30.1	100	1	100	55.4
180-189	62	0	0	******	198	0	0	24.1	232	0	0	37.0	86	0	0	66.6
190-300	40	0	0	******	180	2	111	53.5	358	2	56	65.3	156	2	128	104.6
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	2	2		15410	2	1		11258	9	8		3532	6	17	
074-109	1988	0	0	******	1384	0	0	******	438	0	0	3.8	68	0	0	3.2
110-119	2882	0	0	******	2642	0	0	******	1028	1	10	4.5	200	0	0	4.3
120-129	2634	1	4	******	3032	0	0	******	1546	1	6	5.2	300	1	33	5.5
130-139	1728	0	0	******	2994	1	3	******	1894	1	5	6.0	504	0	0	7.4
140-149	862	0	0	******	1932	1	5	******	1652	0	0	7.0	576	1	17	9.6
150-159	436	0	0	******	1358	0	0	******	1508	1	7	8.1	514	0	0	12.5
160-169	196	0	0	******	770	0	0	******	1056	2	19	9.4	438	0	0	16.2
170-179	92	0	0	******	520	0	0	******	770	0	0	10.9	344	0	0	21.3
180-189	52	0	0	******	378	0	0	******	574	1	17	12.6	224	1	45	28.0
190-300	42	1	238	******	400	0	0	******	792	2	25	19.1	364	3	82	57.4
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.035	*******	0.022	0.015	0.017	0.027
SE(B)	******	******	0.013	******	0.008	0.010	0.010	0.012
A	*******	*******	-11.742	*******	-8.931	-8.733	-7.383	-10.171

TABLE 7-2-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	12	8	5	14	9	6	1091	1124	1081	3	4	4	3	4	4	
020-069	44	79	92	1	1	0	23	13	0	103	205	229	0	0	1	0	0	4	MEN
070-074	108	136	152	1	0	0	9	0	0	198	251	263	0	1	0	0	4	0	B 0.013 0.034 0.047
075-079	71	92	116	1	2	1	14	22	9	136	154	188	0	0	0	0	0	0	SE(B) 0.023 0.029 0.034
080-084	194	207	185	2	0	1	10	0	5	275	248	179	0	0	0	0	0	0	A -5.423 -7.606 -9.124
085-089	112	101	126	2	2	1	18	20	8	102	106	97	1	0	1	10	0	10	
090-094	154	115	104	0	1	1	0	9	10	144	76	64	1	3	1	7	39	16	WOMEN
095-099	62	65	43	2	0	0	32	0	0	51	34	29	1	0	0	20	0	0	B**********
100-104	63	32	35	2	0	0	32	0	0	50	27	19	0	0	0	0	0	0	SE(B)****** ****** ******
105-109	11	21	15	1	1	1	91	48	67	11	13	5	0	0	1	0	0	200	A**********
110-160	39	21	15	0	1	0	0	48	0	21	10	8	0	0	0	0	0	0	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	26	20	18	37	27	25	870	891	925	6	6	6	7	7	6	
020-069	20	59	65	0	2	2	0	34	31	21	63	99	0	0	0	0	0	0	MEN
070-074	67	77	93	0	2	1	0	26	11	74	123	129	0	1	0	0	8	0	B 0.035 0.017 0.017
075-079	55	90	92	1	0	3	18	0	33	80	101	135	0	0	0	0	0	0	SE(B) 0.013 0.018 0.019
080-084	174	142	142	6	1	3	34	7	21	191	187	203	1	0	1	5	0	5	A -6.470 -5.075 -5.104
085-089	74	101	99	3	7	1	41	69	10	100	112	120	1	0	0	10	0	0	
090-094	127	109	86	7	3	3	55	28	35	159	124	89	2	1	3	13	8	34	WOMEN
095-099	56	57	59	1	2	2	18	35	34	69	55	59	0	2	1	0	36	17	B 0.027 0.036 0.045
100-104	69	53	31	3	2	1	43	38	32	77	51	38	1	1	0	13	20	0	SE(B) 0.026 0.023 0.023
105-109	21	16	18	0	0	1	0	0	56	26	21	15	0	0	0	0	0	0	A -7.409 -8.205 -9.001
110-160	42	26	26	5	1	1	119	38	38	73	54	38	1	1	1	14	19	26	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	20	25	22	61	56	41	426	592	701	16	17	12	38	29	17	
020-069	17	37	54	0	1	0	0	27	0	13	31	47	0	1	0	0	32	0	MEN
070-074	31	63	82	1	3	2	32	48	24	35	68	81	0	0	0	0	0	0	B 0.028 0.030 0.038
075-079	40	61	61	0	1	1	0	16	16	27	55	77	0	0	1	0	0	13	SE(B) 0.015 0.013 0.012
080-084	70	84	113	4	3	3	57	36	27	73	107	147	0	0	3	0	0	20	A -5.215 -5.486 -6.533
085-089	36	42	59	3	1	3	83	24	51	54	72	99	2	2	2	37	28	20	
090-094	53	67	60	4	4	3	75	60	50	80	87	97	4	4	0	50	46	0	WOMEN
095-099	22	29	35	2	3	2	91	103	57	34	57	53	4	3	2	118	53	38	B 0.033 0.040 0.036
100-104	26	29	20	2	4	3	77	138	150	49	49	40	2	2	2	41	41	50	SE(B) 0.014 0.015 0.020
105-109	7	7	16	1	2	1	143	286	63	12	20	24	1	2	1	83	100	42	A -6.328 -7.164 -7.279
110-160	28	31	31	3	3	4	107	97	129	49	46	36	3	3	1	61	65	28	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 7-2-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	2	2		11946	7	6		8172	14	17		2328	9	39	
020-069	714	0	0	******	744	1	13	0.8	638	0	0	11.8	276	0	0	17.7
070-074	1282	0	0	******	1456	0	0	1.3	1110	1	9	13.3	374	1	27	23.6
075-079	956	1	10	******	1216	0	0	2.0	854	1	12	14.5	256	1	39	28.1
080-084	2188	0	0	******	2864	1	3	2.8	1822	4	22	15.8	502	1	20	32.9
085-089	1178	0	0	******	1626	1	6	4.1	896	1	11	17.2	258	1	39	39.5
090-094	1146	1	9	******	1694	0	0	6.0	1158	5	43	18.7	294	2	68	46.4
095-099	530	0	0	******	814	1	12	8.6	534	0	0	20.3	104	0	0	54.6
100-104	438	0	0	******	828	0	0	12.1	568	1	18	22.0	130	2	154	63.8
105-109	128	0	0	******	268	0	0	18.1	162	1	62	24.0	30	1	333	79.9
110-160	204	0	0	******	436	3	69	41.9	430	0	0	28.6	104	0	0	119.1
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	2	2		15410	2	1		11258	9	8		3532	6	17	
020-069	1876	1	5	******	1408	0	0	******	736	0	0	3.6	280	0	0	4.1
070-074	2354	0	0	******	2414	0	0	******	1346	1	7	4.6	408	0	0	6.0
075-079	1542	0	0	******	1752	0	0	******	1042	1	10	5.4	320	1	31	8.0
080-084	2388	0	0	******	3564	1	3	******	2452	0	0	6.3	800	0	0	10.3
085-089	1080	0	0	******	1852	0	0	******	1400	2	14	7.4	358	1	28	13.7
090-094	848	0	0	******	1956	1	5	******	1746	2	11	8.7	572	1	17	17.7
095-099	336	1	30	******	772	0	0	******	746	0	0	10.2	274	1	36	23.0
100-104	278	0	0	******	788	0	0	******	850	1	12	11.8	278	0	0	29.7
105-109	98	0	0	******	256	0	0	******	280	0	0	14.0	52	0	0	39.1
110-160	112	0	0	******	648	0	0	******	660	2	30	19.8	190	2	105	73.9
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.075	*******	0.017	0.032	0.034	0.054
SE(B)	******	******	0.022	******	0.019	0.022	0.020	0.024
A	*******	*******	-13.582	*******	-7.137	-9.289	-7.813	-10.568

TABLE 7-3-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	12	8	5	14	9	6	1091	1124	1081	3	4	4	3	4	4	
096-189	140	171	173	1	2	0	7	12	0	210	333	330	1	1	1	5	3	3	MEN
190-204	94	99	115	3	0	0	32	0	0	133	206	187	1	0	1	8	0	5	B 0.004 0.010 0.018
205-219	57	136	141	0	0	0	0	0	0	85	151	155	0	0	0	0	0	0	SE(B) 0.007 0.005 0.005
220-234	108	143	131	2	0	1	19	0	8	98	135	131	0	0	0	0	0	0	A -4.931 -7.154 -9.584
235-249	50	93	99	0	0	0	0	0	0	50	90	96	0	0	0	0	0	0	
250-264	50	69	75	1	0	0	20	0	0	46	56	56	0	0	0	0	0	0	WOMEN
265-279	28	53	45	1	1	1	36	19	22	22	55	36	1	1	1	45	18	28	B**********
280-294	18	31	37	1	2	0	56	65	0	16	28	29	0	1	1	0	36	34	SE(B)****** ****** ******
295-309	12	20	23	0	1	2	0	50	87	6	17	25	0	0	0	0	0	0	A**********
310-696	17	28	31	0	1	1	0	36	32	3	15	14	0	0	0	0	0	0	
UNKNOWN	284	26	13	3	1	0				422	38	22	0	1	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	26	20	18	37	27	25	870	891	925	6	6	6	7	7	6	
096-189	76	95	89	2	0	0	26	0	0	73	101	107	0	0	0	0	0	0	MEN
190-204	59	95	84	3	1	3	51	11	36	41	89	96	0	0	0	0	0	0	B 0.005 0.010 0.007
205-219	50	110	128	1	3	4	20	27	31	55	114	114	0	0	0	0	0	0	SE(B) 0.007 0.006 0.006
220-234	65	124	115	1	4	4	15	32	35	83	143	136	0	1	0	0	7	0	A -4.765 -6.112 -5.181
235-249	47	105	89	1	3	1	21	29	11	41	109	133	0	0	0	0	0	0	
250-264	38	68	80	1	4	2	26	59	25	35	81	96	0	0	0	0	0	0	WOMEN
265-279	25	45	46	0	1	2	0	22	43	40	75	75	0	0	0	0	0	0	B******* 0.024 0.020
280-294	26	38	31	2	0	0	77	0	0	30	55	54	0	1	2	0	18	37	SE(B)****** 0.006 0.006
295-309	14	19	17	0	0	1	0	0	59	24	30	36	0	1	1	0	33	28	A*******-11.516-10.426
310-696	10	19	21	1	2	1	100	105	48	38	65	66	3	3	3	79	46	45	
UNKNOWN	295	12	11	14	2	0				410	29	12	3	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	20	25	22	61	56	41	426	592	701	16	17	12	38	29	17	
096-189	50	80	95	2	5	3	40	63	32	13	27	35	1	3	2	77	111	57	MEN
190-204	32	59	51	0	2	1	0	34	20	19	41	46	0	0	1	0	0	22	B 0.013 0.006 0.004
205-219	29	69	87	3	2	4	103	29	46	22	48	64	1	2	1	45	42	16	SE(B) 0.007 0.005 0.005
220-234	40	57	68	2	1	2	50	18	29	46	96	92	1	1	1	22	10	11	A -5.786 -4.317 -3.989
235-249	24	47	72	0	6	3	0	128	42	28	68	84	0	2	0	0	29	0	
250-264	18	54	72	1	4	6	56	74	83	38	73	97	3	0	1	79	0	10	WOMEN
265-279	15	26	27	1	1	1	67	38	37	28	62	88	0	1	2	0	16	23	B 0.009 0.006 0.001
280-294	10	21	25	4	1	0	400	48	0	20	45	51	0	2	0	0	44	0	SE(B) 0.006 0.005 0.006
295-309	9	18	19	0	2	1	0	111	53	19	37	52	2	1	1	105	27	19	A -5.668 -5.075 -4.213
310-696	6	12	13	1	1	1	167	83	77	27	75	82	2	5	3	74	67	37	
UNKNOWN	97	7	2	6	0	0				166	20	10	6	0	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 7-3-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	2	2		11946	7	6		8172	14	17		2328	9	39	
096-189	1522	0	0	******	1356	1	7	4.6	980	0	0	7.3	282	0	0	29.8
190-204	994	0	0	******	1202	1	8	4.9	844	0	0	9.6	276	3	109	33.2
205-219	1192	0	0	******	1740	0	0	5.0	1088	2	18	11.3	306	1	33	35.3
220-234	1316	0	0	******	1772	2	11	5.2	1234	2	16	13.4	366	3	82	37.3
235-249	976	0	0	******	1506	0	0	5.3	1146	4	35	15.7	268	0	0	39.7
250-264	776	0	0	******	1346	0	0	5.4	1024	0	0	18.5	274	0	0	42.2
265-279	552	0	0	******	960	0	0	5.6	676	1	15	21.9	214	0	0	44.7
280-294	402	1	25	******	658	1	15	5.8	430	0	0	25.8	182	0	0	47.4
295-309	246	0	0	******	380	1	26	5.9	292	2	68	30.3	64	1	156	50.4
310-696	338	1	30	******	524	0	0	6.3	296	2	68	47.7	78	1	128	55.8
UNKNOWN	450	0			502	1			162	1			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	2	2		15410	2	1		11258	9	8		3532	6	17	
096-189	2920	0	0	******	1484	0	0	******	440	1	23	0.9	94	0	0	2.6
190-204	1782	0	0	******	1442	0	0	******	578	0	0	1.5	138	0	0	4.2
205-219	1486	0	0	******	1776	0	0	******	870	0	0	1.9	246	0	0	5.2
220-234	1352	0	0	******	2182	0	0	******	1376	0	0	2.6	396	0	0	6.7
235-249	980	1	10	******	1930	1	5	******	1332	0	0	3.5	444	1	23	8.7
250-264	630	0	0	******	1642	0	0	******	1498	1	7	4.6	474	0	0	11.0
265-279	440	0	0	******	1384	0	0	******	1414	0	0	6.1	504	0	0	14.2
280-294	302	0	0	******	1022	0	0	******	1116	0	0	8.2	368	1	27	18.7
295-309	160	0	0	******	670	1	15	******	816	1	12	11.1	278	2	72	23.6
310-1124	182	1	55	******	1180	0	0	******	1506	6	40	30.0	540	2	37	47.3
UNKNOWN	678	0			698	0			312	0			50	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.002	*******	0.011	0.019	0.004	0.017
SE(B)	******	******	0.009	******	0.005	0.005	0.008	0.008
A	*******	*******	-7.297	*******	-8.435	-11.994	-5.802	-10.466

TABLE 7-4-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	12	8	5	14	9	6	1091	1124	1081	3	4	4	3	4	4
067-119	18	25	17	0	0	0	0	0	0	180	274	242	1	1	2	6	4	8
120-124	13	43	25	0	1	0	0	23	0	112	245	188	1	1	0	9	4	0
125-129	24	60	29	0	2	0	0	33	0	98	161	170	0	1	1	0	6	6
130-134	61	125	92	2	2	1	33	16	11	86	194	209	0	0	0	0	0	0
135-139	93	125	108	4	1	0	43	8	0	94	106	120	1	0	0	11	0	0
140-144	103	147	133	1	0	0	10	0	0	47	44	70	0	0	1	0	0	14
145-149	68	106	193	0	0	1	0	0	5	5	20	28	0	0	0	0	0	0
150-154	84	101	109	1	2	0	12	20	0	8	15	14	0	0	0	0	0	0
155-159	43	55	98	1	0	2	23	0	20	2	8	6	0	0	0	0	0	0
160-216	50	50	62	0	0	1	0	0	16	5	3	1	0	0	0	0	0	0
UNKNOWN	301	32	17	3	0	0				454	54	33	0	1	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	26	20	18	37	27	25	870	891	925	6	6	6	7	7	6
067-119	11	30	15	1	0	0	91	0	0	77	173	150	0	1	0	0	6	0
120-124	21	44	28	0	3	1	0	68	36	87	192	158	2	0	1	23	0	6
125-129	20	41	28	0	1	0	0	24	0	65	130	144	0	3	0	0	23	0
130-134	43	104	92	0	0	1	0	0	11	75	176	184	1	2	3	13	11	16
135-139	62	99	86	1	2	3	16	20	35	67	87	131	0	0	2	0	0	15
140-144	78	119	134	3	2	6	38	17	45	34	48	63	0	0	0	0	0	0
145-149	49	101	125	1	4	2	20	40	16	15	23	48	0	0	0	0	0	0
150-154	46	88	82	3	2	0	65	23	0	10	12	18	0	0	0	0	0	0
155-159	28	43	63	1	0	5	36	0	79	3	5	8	0	0	0	0	0	0
160-216	33	43	45	1	3	0	30	70	0	1	3	4	0	0	0	0	0	0
UNKNOWN	314	18	13	15	3	0				436	42	17	3	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	20	25	22	61	56	41	426	592	701	16	17	12	38	29	17
067-119	22	31	23	0	2	0	0	65	0	42	111	96	1	1	2	24	9	21
120-124	10	22	22	1	0	2	100	0	91	44	105	109	3	4	1	68	38	9
125-129	12	32	32	1	3	2	83	94	63	39	92	100	0	3	2	0	33	20
130-134	31	72	47	0	2	0	0	28	0	50	128	173	3	5	4	60	39	23
135-139	33	69	76	3	4	3	91	58	39	38	57	87	1	0	1	26	0	11
140-144	47	85	94	0	3	5	0	35	53	23	44	59	1	2	2	43	45	34
145-149	16	39	93	1	5	4	63	128	43	7	13	37	1	1	0	143	77	0
150-154	26	47	60	4	5	1	154	106	17	3	9	15	0	1	0	0	111	0
155-159	9	25	47	0	0	0	0	0	0	2	5	8	0	0	0	0	0	0
160-216	17	14	33	3	1	4	176	71	121	1	1	1	0	0	0	0	0	0
UNKNOWN	107	14	4	7	0	1				177	27	16	6	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	-0.023	-0.045	0.056
SE(B)	0.027	0.030	0.040
A	-0.871	1.526	-13.394
WOMEN			
B	**********	**********	**********
SE(B)	******	******	******
A	**********	**********	**********
AGE 45-54 AT EXAM			
MEN			
B	0.027	0.019	0.009
SE(B)	0.025	0.020	0.021
A	-7.372	-6.412	-4.977
WOMEN			
B	*******	-0.002	0.014
SE(B)	******	0.038	0.037
A	*******	-4.722	-6.901
AGE 55-64 AT EXAM			
MEN			
B	0.043	0.016	0.010
SE(B)	0.022	0.017	0.019
A	-8.919	-4.975	-4.647
WOMEN			
B	-0.004	0.024	-0.012
SE(B)	0.030	0.023	0.027
A	-2.644	-6.520	-2.462

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 7-4-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	2	2		11946	7	6		8172	14	17		2328	9	39	
067-119	136	0	0	******	148	0	0	0.8	218	1	46	21.8	48	0	0	14.2
120-124	206	0	0	******	264	0	0	1.1	164	0	0	20.1	16	0	0	16.4
125-129	272	0	0	******	286	0	0	1.4	230	0	0	19.4	44	0	0	19.5
130-134	686	0	0	******	818	0	0	1.9	620	1	16	18.4	98	0	0	22.5
135-139	886	0	0	******	1032	2	19	2.5	768	0	0	17.6	176	0	0	26.1
140-144	1288	0	0	******	1684	0	0	3.2	1278	2	16	16.9	322	1	31	30.2
145-149	1550	0	0	******	2076	0	0	4.1	1382	4	29	16.2	386	2	52	34.4
150-154	1284	0	0	******	1858	0	0	5.4	1210	3	25	15.5	494	3	61	40.2
155-159	980	0	0	******	1474	1	7	7.0	1042	2	19	14.9	342	1	29	45.9
160-216	948	2	21	******	1732	3	17	12.1	1054	0	0	13.7	374	2	53	61.0
UNKNOWN	528	0			574	1			206	1			28	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	2	2		15410	2	1		11258	9	8		3532	6	17	
067-119	1958	1	5	******	1644	0	0	******	938	1	11	14.3	182	1	55	34.2
120-124	1584	0	0	******	1720	0	0	******	1040	3	29	11.0	236	0	0	23.8
125-129	1550	0	0	******	1948	0	0	******	1294	0	0	9.7	346	0	0	21.2
130-134	2028	0	0	******	2756	0	0	******	2256	0	0	8.5	628	1	16	18.6
135-139	1444	0	0	******	2532	0	0	******	1854	3	16	7.4	620	1	16	16.5
140-144	814	1	12	******	1784	1	6	******	1560	1	6	6.4	632	1	16	14.6
145-149	428	0	0	******	1236	0	0	******	1014	1	10	5.7	414	2	48	12.9
150-154	188	0	0	******	588	0	0	******	512	0	0	4.9	228	0	0	11.4
155-159	78	0	0	******	200	0	0	******	260	0	0	4.3	124	0	0	10.0
160-216	34	0	0	******	156	1	64	******	150	0	0	3.5	66	0	0	8.2
UNKNOWN	806	0			846	0			380	0			56	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.054	*******	-0.009	-0.027	0.029	-0.025
SE(B)	******	******	0.033	******	0.022	0.028	0.029	0.029
A	*******	*******	-15.010	*******	-4.435	-2.792	-9.218	-2.251

TABLE 7-5-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	12	8	5	14	9	6	1091	1124	1081	3	4	4	3	4	4
062-159	251	235	126	6	1	0	24	4	0	342	441	216	2	2	1	6	5	5
160-179	83	138	72	1	0	0	12	0	0	102	193	127	1	0	0	10	0	0
180-199	99	155	113	0	0	0	0	0	0	92	151	132	0	0	0	0	0	0
200-219	45	133	124	0	0	0	0	0	0	59	150	185	0	0	0	0	0	0
220-239	32	62	121	2	2	0	63	32	0	39	73	148	0	1	1	0	14	7
240-259	30	35	105	0	1	1	0	29	10	18	32	117	0	0	1	0	0	9
260-279	16	38	75	0	1	1	0	26	13	7	22	59	0	0	0	0	0	0
280-299	3	22	60	0	1	1	0	45	17	2	12	42	0	0	0	0	0	0
300-319	4	13	32	0	0	1	0	0	31	1	4	16	0	0	0	0	0	0
320-968	6	11	38	0	1	1	0	91	26	0	6	9	0	0	0	****	0	0
UNKNOWN	289	27	17	3	1	0				429	40	30	0	1	1			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	26	20	18	37	27	25	870	891	925	6	6	6	7	7	6
062-159	154	207	110	4	2	2	26	10	18	156	201	131	0	0	0	0	0	0
160-179	64	116	78	6	4	2	94	34	26	66	113	87	0	0	0	0	0	0
180-199	45	128	88	0	5	3	0	39	34	72	140	84	0	0	0	0	0	0
200-219	48	114	106	1	3	2	21	26	19	71	166	171	2	2	1	28	12	6
220-239	20	62	87	0	1	1	0	16	11	31	94	93	0	2	0	0	21	0
240-259	27	40	75	0	2	2	0	50	27	18	63	111	0	0	2	0	0	18
260-279	23	28	58	0	0	1	0	0	17	12	51	90	0	1	1	0	20	11
280-299	9	12	46	0	0	3	0	0	65	10	18	59	0	0	0	0	0	0
300-319	4	5	23	0	1	1	0	200	43	5	6	31	1	0	1	200	0	32
320-968	5	4	26	1	0	0	200	0	0	11	7	44	0	1	1	0	143	23
UNKNOWN	306	14	14	14	2	1				418	32	24	3	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	20	25	22	61	56	41	426	592	701	16	17	12	38	29	17
062-159	86	114	72	3	4	1	35	35	14	69	75	56	3	4	0	43	53	0
160-179	48	75	57	4	3	4	83	40	70	37	77	42	1	1	1	27	13	24
180-199	25	70	64	3	6	4	120	86	63	36	105	83	1	2	2	28	19	24
200-219	29	75	72	0	3	2	0	40	28	38	122	108	0	3	1	0	25	9
220-239	14	48	81	1	3	4	71	63	49	28	75	95	3	3	3	107	40	32
240-259	8	25	76	0	2	3	0	80	39	14	44	106	0	0	0	0	0	0
260-279	13	19	44	2	2	0	154	105	0	15	30	59	1	1	2	67	33	34
280-299	3	10	20	1	1	1	333	100	50	5	23	66	0	1	1	0	43	15
300-319	0	2	25	0	1	2	****	500	80	7	9	41	1	1	0	143	111	0
320-968	2	3	18	0	0	1	0	0	56	6	9	32	0	1	2	0	111	63
UNKNOWN	102	9	2	6	0	0				171	23	13	6	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	-0.004	0.010	0.022
SE(B)	0.007	0.004	0.008
A	-3.526	-6.952	-10.926
WOMEN			
B	**********	**********	**********
SE(B)	******	******	******
A	**********	**********	**********
AGE 45-54 AT EXAM			
MEN			
B	-0.001	0.004	0.002
SE(B)	0.006	0.004	0.004
A	-3.211	-4.412	-4.223
WOMEN			
B	*******	0.024	0.017
SE(B)	******	0.009	0.007
A	*******	-10.277	-9.338
AGE 55-64 AT EXAM			
MEN			
B	0.004	0.004	0.001
SE(B)	0.005	0.004	0.004
A	-3.515	-3.576	-3.252
WOMEN			
B	0.003	0.001	0.004
SE(B)	0.006	0.005	0.005
A	-3.792	-3.732	-4.920

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 7-5-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	2	2		11946	7	6		8172	14	17		2328	9	39	
062-159	1320	0	0	******	1128	0	0	2.6	698	0	0	6.9	60	0	0	39.6
160-179	654	0	0	******	634	1	16	3.2	450	0	0	8.7	64	0	0	39.4
180-199	940	0	0	******	818	0	0	3.6	572	1	17	10.1	46	0	0	39.4
200-219	904	0	0	******	1012	1	10	4.0	698	1	14	11.6	182	1	55	39.2
220-239	868	0	0	******	1198	0	0	4.5	892	1	11	13.3	210	3	143	39.1
240-259	934	0	0	******	1574	0	0	5.0	1188	2	17	15.3	460	1	22	39.0
260-279	928	0	0	******	1568	1	6	5.6	1240	1	8	17.6	458	2	44	38.9
280-299	638	0	0	******	1346	1	7	6.3	946	4	42	20.1	344	1	29	38.8
300-319	494	1	20	******	922	0	0	7.0	646	1	15	23.1	272	0	0	38.7
320-968	594	1	17	******	1186	2	17	9.2	656	2	30	32.7	214	1	47	38.6
UNKNOWN	490	0			560	1			186	1			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	2	2		15410	2	1		11258	9	8		3532	6	17	
062-159	2230	0	0	******	1320	0	0	******	588	0	0	0.5	30	0	0	4.6
160-179	980	0	0	******	758	0	0	******	440	0	0	0.9	44	0	0	5.9
180-199	1106	0	0	******	870	0	0	******	596	0	0	1.2	58	0	0	7.0
200-219	1292	0	0	******	1552	0	0	******	948	0	0	1.9	158	0	0	8.5
220-239	1246	1	8	******	1520	0	0	******	916	1	11	2.7	188	0	0	10.1
240-259	1182	0	0	******	1902	0	0	******	1246	1	8	3.8	382	0	0	11.8
260-279	892	1	11	******	1998	1	5	******	1508	0	0	5.3	574	3	52	13.9
280-299	614	0	0	******	1668	0	0	******	1422	0	0	7.6	586	0	0	16.4
300-319	364	0	0	******	1358	0	0	******	1374	3	22	10.7	666	1	15	19.1
320-968	264	0	0	******	1666	1	6	******	1870	4	21	24.7	782	2	26	27.0
UNKNOWN	742	0			798	0			350	0			64	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.006	*******	0.007	0.018	-0.000	0.008
SE(B)	******	******	0.006	******	0.004	0.006	0.007	0.009
A	*******	*******	-8.301	*******	-7.519	-11.701	-4.812	-8.155

TABLE 7-6-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	12	8	5	14	9	6	1091	1124	1081	3	4	4	3	4	4	
029-059	15	20	17	0	0	0	0	0	0	12	18	20	0	0	0	0	0	0	MEN
060-069	152	137	145	0	1	1	0	7	7	149	176	171	2	0	0	13	0	0	B -0.008 0.000 -0.026
070-079	212	313	318	7	3	2	33	10	6	287	396	390	0	2	2	0	5	5	SE(B) 0.022 0.025 0.040
080-089	181	211	220	1	3	1	6	14	5	236	301	305	0	0	1	0	0	3	A -3.564 -4.674 -3.101
090-099	71	105	111	1	0	1	14	0	9	91	128	110	0	1	0	0	8	0	
100-109	30	38	41	1	1	0	33	26	0	33	45	33	0	0	0	0	0	0	WOMEN
110-119	17	13	11	0	0	0	0	0	0	14	17	15	0	0	0	0	0	0	B**********
120-129	6	2	6	0	0	0	0	0	0	5	7	5	0	0	0	0	0	0	SE(B)****** ****** ******
130-139	5	5	3	0	0	0	0	0	0	2	1	4	0	0	0	0	0	0	A**********
140-524	4	5	4	0	0	0	0	0	0	4	5	7	1	1	1	250	200	143	
UNKNOWN	165	20	7	2	0	0				258	30	21	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	26	20	18	37	27	25	870	891	925	6	6	6	7	7	6	
029-059	11	15	13	0	0	0	0	0	0	5	10	13	0	0	0	0	0	0	MEN
060-069	100	98	100	3	3	2	30	31	20	86	121	121	1	0	0	12	0	0	B 0.003 0.004 -0.010
070-079	150	245	220	9	7	9	60	29	41	168	255	327	2	1	2	12	4	6	SE(B) 0.007 0.006 0.016
080-089	127	179	208	3	2	2	24	11	10	192	281	262	0	4	2	0	14	8	A -3.500 -3.921 -2.792
090-099	79	102	90	2	1	4	25	10	44	87	112	113	0	0	1	0	0	9	
100-109	19	34	41	1	3	1	53	88	24	45	46	35	0	1	1	0	22	29	WOMEN
110-119	13	23	13	0	1	0	0	43	0	14	23	21	0	0	0	0	0	0	B******* 0.007 0.005
120-129	2	7	5	0	2	0	0	286	0	6	2	4	0	0	0	0	0	0	SE(B)****** 0.016 0.014
130-139	6	2	1	0	0	0	0	0	0	2	4	5	0	0	0	0	0	0	A******* -5.565 -5.404
140-524	14	16	14	1	0	0	71	0	0	8	13	14	0	0	0	0	0	0	
UNKNOWN	184	9	6	7	1	0				257	24	10	3	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	20	25	22	61	56	41	426	592	701	16	17	12	38	29	17	
029-059	8	9	6	0	1	0	0	111	0	5	15	12	0	1	1	0	67	83	MEN
060-069	38	61	75	1	3	0	26	49	0	33	60	58	3	3	3	91	50	52	B 0.015 0.012 0.009
070-079	88	136	154	8	15	9	91	110	58	93	157	200	1	4	2	11	25	10	SE(B) 0.006 0.005 0.005
080-089	67	117	130	1	2	4	15	17	31	88	164	220	2	2	0	23	12	0	A -4.154 -3.857 -3.981
090-099	35	56	85	1	0	3	29	0	35	53	95	93	2	0	0	38	0	0	
100-109	12	20	30	0	0	3	0	0	100	24	46	51	2	3	2	83	65	39	WOMEN
110-119	8	17	18	1	0	0	125	0	0	4	9	18	0	2	3	0	222	167	B 0.006 0.004 0.005
120-129	3	7	13	1	0	1	333	0	77	6	12	17	0	1	0	0	83	0	SE(B) 0.005 0.006 0.006
130-139	2	2	4	0	0	0	0	0	0	4	1	3	1	0	0	250	0	0	A -3.772 -3.839 -4.456
140-524	9	13	13	3	4	2	333	308	154	13	16	21	2	1	1	154	63	48	
UNKNOWN	60	12	3	4	0	0				103	17	8	3	0	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 7-6-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	2	2		11946	7	6		8172	14	17		2328	9	39	
029-059	288	0	0	******	338	0	0	5.9	244	0	0	15.8	54	0	0	21.3
060-069	1704	0	0	******	2168	2	9	5.6	1318	1	8	16.0	414	2	48	24.7
070-079	2894	2	7	******	3892	1	3	5.3	2502	4	16	16.1	674	2	30	27.9
080-089	2048	0	0	******	2758	2	7	5.1	1976	6	30	16.2	522	0	0	31.8
090-099	906	0	0	******	1322	0	0	4.8	966	1	10	16.3	336	2	60	36.4
100-109	334	0	0	******	526	1	19	4.6	412	0	0	16.4	112	0	0	41.7
110-119	156	0	0	******	250	0	0	4.4	226	0	0	16.6	46	0	0	48.0
120-129	50	0	0	******	86	0	0	4.2	120	0	0	16.7	34	1	294	55.3
130-139	34	0	0	******	52	0	0	4.0	54	1	185	16.8	34	0	0	61.7
140-524	58	0	0	******	232	0	0	2.9	214	0	0	17.7	78	2	256	257.6
UNKNOWN	292	0			322	1			140	1			24	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	2	2		15410	2	1		11258	9	8		3532	6	17	
029-059	260	0	0	******	296	0	0	******	240	0	0	6.0	54	0	0	8.2
060-069	1862	0	0	******	2686	0	0	******	1452	0	0	6.5	414	1	24	9.8
070-079	3862	1	3	******	5186	1	2	******	3550	3	8	7.1	1118	2	18	11.5
080-089	2874	1	3	******	3890	0	0	******	3048	3	10	7.7	918	1	11	13.5
090-099	982	0	0	******	1598	0	0	******	1368	0	0	8.5	462	1	22	15.8
100-109	320	0	0	******	618	0	0	******	612	1	16	9.3	238	0	0	18.5
110-119	136	0	0	******	294	0	0	******	266	1	38	10.2	80	0	0	22.2
120-129	48	0	0	******	98	0	0	******	186	0	0	11.1	88	0	0	26.0
130-139	20	0	0	******	40	0	0	******	54	0	0	12.3	28	0	0	30.0
140-524	58	0	0	******	158	1	63	******	250	1	40	29.9	90	1	111	151.5
UNKNOWN	490	0			546	0			232	0			42	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.005	*******	0.001	0.009	0.014	0.016
SE(B)	******	******	0.022	******	0.010	0.006	0.004	0.005
A	*******	*******	-6.466	*******	-5.794	-7.236	-6.215	-7.295

TABLE 7-7-A

INCIDENCE OF EVENT AFTER SPECIFIEO EXAM*, BY SEX, AGE, ANO LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: URIC ACID (MG/LITER)

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	12	8	5	14	9	6	1091	1124	1081	3	4	4	3	4	4	
005-029	29	15	22	0	0	0	0	0	0	187	169	170	1	1	1	5	6	6	MEN
030-034	36	41	29	1	1	0	28	24	0	119	208	255	0	1	0	0	5	0	B -0.040 -0.011 0.009
035-039	74	51	63	3	0	1	41	0	16	124	271	266	0	0	2	0	0	8	SE(B) 0.029 0.036 0.045
040-044	77	136	147	1	1	1	13	7	7	111	219	209	1	1	1	9	5	5	A -2.310 -4.237 -5.616
045-049	90	155	183	2	1	1	22	6	5	66	117	87	1	0	0	15	0	0	
050-054	97	151	172	2	1	0	21	7	0	22	56	44	0	0	0	0	0	0	WOMEN
055-059	73	120	138	0	3	1	0	25	7	23	28	20	0	0	0	0	0	0	B**********
060-064	43	87	65	0	0	0	0	0	0	6	9	3	0	0	0	0	0	0	SE(B)****** ****** ******
065-069	29	51	29	0	0	1	0	0	34	4	4	4	0	0	0	0	0	0	A**********
070-104	24	35	22	0	0	0	0	0	0	5	4	1	0	0	0	0	0	0	
UNKNOWN	286	27	13	3	1	0				424	39	22	0	1	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	26	20	18	37	27	25	870	891	925	6	6	6	7	7	6	
005-029	22	16	8	0	1	0	0	63	0	88	99	102	0	0	0	0	0	0	MEN
030-034	27	23	25	1	0	0	37	0	0	70	113	157	1	1	1	14	9	6	B 0.012 -0.025 -0.023
035-039	45	66	48	0	2	3	0	30	63	77	171	200	1	1	1	13	6	5	SE(B) 0.023 0.021 0.025
040-044	50	101	120	3	2	4	60	20	33	72	175	184	0	0	1	0	0	5	A -4.085 -2.405 -2.507
045-049	71	118	146	2	5	3	28	42	21	76	118	130	0	1	1	0	8	8	
050-054	58	115	133	1	3	5	17	26	38	36	82	84	0	0	2	0	0	24	WOMEN
055-059	56	108	92	1	2	1	18	19	11	15	60	40	1	2	0	67	33	0	B******* 0.066 0.036
060-064	35	78	78	2	3	2	57	38	26	13	26	9	0	1	0	0	38	0	SE(B)****** 0.037 0.043
065-069	21	47	30	2	0	0	95	0	0	8	8	4	0	0	0	0	0	0	A******* -7.941 -6.507
070-104	24	46	19	0	0	0	0	0	0	3	7	2	0	0	0	0	0	0	
UNKNOWN	296	12	12	14	2	0				412	32	13	3	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	20	25	22	61	56	41	426	592	701	16	17	12	38	29	17	
005-029	8	8	5	0	0	1	0	0	200	26	58	53	0	1	0	0	17	0	MEN
030-034	18	20	14	4	2	0	222	100	0	37	72	98	2	2	1	54	28	10	B -0.014 -0.006 0.026
035-039	26	44	53	1	4	2	38	91	38	49	101	132	2	3	2	41	30	15	SE(B) 0.023 0.018 0.022
040-044	37	57	84	4	4	4	108	70	48	59	117	166	4	4	3	68	34	18	A -2.074 -2.499 -4.448
045-049	37	76	104	0	3	4	0	39	38	36	94	114	1	1	2	28	11	18	
050-054	35	78	104	1	3	2	29	38	19	27	59	62	0	2	1	0	34	16	WOMEN
055-059	33	61	85	1	3	1	30	49	12	15	37	34	0	2	1	0	54	29	B 0.020 0.031 0.059
060-064	17	53	42	1	4	3	59	75	71	3	18	16	0	0	0	0	0	0	SE(B) 0.031 0.022 0.027
065-069	12	26	25	1	1	4	83	38	160	3	10	10	0	0	1	0	0	100	A -4.062 -4.846 -6.670
070-104	10	19	12	1	1	1	100	53	83	3	6	6	1	2	1	333	333	167	
UNKNOWN	97	8	3	6	0	0				168	20	10	6	0	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, ANO 12 YEARS AFTER EXAM 3.

TABLE 7-7-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: URIC ACID (MG/LITER)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	2	2		11946	7	6		8172	14	17		2328	9	39	
005-029	188	0	0	******	170	0	0	4.2	74	0	0	13.8	36	0	0	17.5
030-034	348	0	0	******	356	0	0	4.5	312	0	0	14.5	66	0	0	21.2
035-039	626	0	0	******	976	2	20	4.7	732	1	14	15.0	188	1	53	24.4
040-044	1384	0	0	******	1760	0	0	4.9	1328	1	8	15.5	438	1	23	29.2
045-049	1644	2	12	******	2340	1	4	5.1	1692	4	24	16.0	460	2	43	34.2
050-054	1566	0	0	******	2224	1	4	5.3	1396	4	29	16.5	388	0	0	39.7
055-059	1210	0	0	******	1630	0	0	5.6	1194	1	8	17.0	364	3	82	46.5
060-064	700	0	0	******	984	0	0	5.8	708	1	14	17.5	212	0	0	54.5
065-069	390	0	0	******	516	2	39	6.1	312	1	32	18.1	92	2	217	63.6
070-104	244	0	0	******	438	0	0	6.6	246	0	0	19.2	58	0	0	88.3
UNKNOWN	464	0			552	1			178	1			26	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	2	2		15410	2	1		11258	9	8		3532	6	17	
005-029	1820	1	5	******	2138	0	0	******	986	0	0	1.9	256	1	39	34.2
030-034	2290	0	0	******	2666	1	4	******	1564	2	13	3.1	440	2	45	25.3
035-039	2474	0	0	******	3348	0	0	******	2220	1	5	4.4	706	0	0	20.2
040-044	2006	1	5	******	3120	1	3	******	2560	1	4	6.5	756	1	13	16.0
045-049	886	0	0	******	1684	0	0	******	1744	1	6	9.6	650	1	15	12.6
050-054	382	0	0	******	956	0	0	******	976	0	0	14.1	342	1	29	9.9
055-059	224	0	0	******	416	0	0	******	462	2	43	20.5	192	0	0	8.1
060-064	66	0	0	******	198	0	0	******	220	1	45	29.4	62	0	0	6.3
065-069	32	0	0	******	98	0	0	******	132	0	0	43.4	36	0	0	5.1
070-104	26	0	0	******	28	0	0	******	58	1	172	80.4	24	0	0	3.1
UNKNOWN	706	0			758	0			336	0			68	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.009	*******	0.006	0.078	0.033	-0.048
SE(B)	******	******	0.039	******	0.027	0.030	0.032	0.048
A	*******	*******	-7.303	*******	-6.047	-9.908	-6.534	-3.737

TABLE 7-8-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	12	8	5	14	9	6	1091	1124	1081	3	4	4	3	4	4	
052-084	98	84	73	2	0	0	20	0	0	196	196	174	0	0	0	0	0	0	MEN
085-089	77	76	82	2	1	1	26	13	12	128	149	159	0	0	1	0	0	6	B -0.009 0.006 0.039
090-094	104	113	92	1	2	0	10	18	0	153	179	166	0	1	0	0	6	0	SE(B) 0.021 0.026 0.028
095-099	120	133	140	3	2	0	25	15	0	153	155	142	0	0	0	0	0	0	A -3.328 -5.257 -9.314
100-104	107	102	117	1	0	0	9	0	0	120	110	130	0	0	0	0	0	0	
105-109	112	105	115	0	0	1	0	0	9	96	92	84	2	0	0	21	0	0	WOMEN
110-114	88	99	106	0	0	1	0	0	9	64	60	60	0	2	0	0	33	0	B**********
115-119	57	62	57	1	2	0	18	32	0	45	57	44	0	0	2	0	0	45	SE(B)****** ****** ******
120-124	40	41	43	0	0	1	0	0	23	29	38	37	0	0	0	0	0	0	A**********
125-226	50	49	53	2	1	1	40	20	19	96	75	75	1	1	1	10	13	13	
UNKNOWN	5	5	5	0	0	0				11	13	10	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	26	20	18	37	27	25	870	891	925	6	6	6	7	7	6	
052-084	55	63	63	2	2	1	36	32	16	68	81	92	0	0	0	0	0	0	MEN
085-089	48	49	52	3	0	1	63	0	19	56	73	86	0	0	0	0	0	0	B 0.005 0.025 0.009
090-094	99	81	80	2	0	2	20	0	25	83	89	109	0	0	0	0	0	0	SE(B) 0.015 0.016 0.018
095-099	97	118	89	3	4	4	31	34	45	123	119	141	0	1	0	0	8	0	A -3.816 -6.168 -4.585
100-104	107	107	116	5	4	3	47	37	26	127	126	120	4	2	3	31	16	25	
105-109	117	103	103	5	2	0	43	19	0	100	101	99	1	3	1	10	30	10	WOMEN
110-114	67	88	81	1	2	3	15	23	37	78	81	80	1	0	2	13	0	25	B -0.006 -0.002 0.009
115-119	50	54	59	2	4	3	40	74	51	61	67	58	0	0	0	0	0	0	SE(B) 0.024 0.023 0.020
120-124	21	28	26	1	0	0	48	0	0	52	45	34	0	0	0	0	0	0	A -4.373 -4.744 -5.926
125-226	39	35	39	2	2	1	51	57	26	119	106	103	0	0	0	0	0	0	
UNKNOWN	5	4	3	0	0	0				3	3	3	0	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	20	25	22	61	56	41	426	592	701	16	17	12	38	29	17	
052-084	43	45	43	2	3	2	47	67	47	29	40	50	1	2	1	34	50	20	MEN
085-089	23	31	42	1	3	2	43	97	48	25	37	45	2	0	0	80	0	0	B -0.001 -0.012 0.005
090-094	31	44	57	1	2	2	32	45	35	38	56	62	2	2	2	53	36	32	SE(B) 0.017 0.016 0.017
095-099	53	78	81	5	2	3	94	26	37	45	73	98	1	4	4	22	55	41	A -2.722 -1.714 -3.744
100-104	48	63	82	3	7	4	63	111	49	51	83	100	3	3	3	59	36	30	
105-109	33	57	74	1	0	1	30	0	14	39	55	82	1	0	0	26	0	0	WOMEN
110-114	39	55	75	1	2	1	26	36	13	46	62	55	2	1	0	43	16	0	B 0.002 -0.005 -0.020
115-119	24	38	34	3	3	5	125	79	147	43	42	60	0	0	0	0	0	0	SE(B) 0.013 0.013 0.018
120-124	17	19	19	0	0	0	0	0	0	29	49	40	0	2	0	0	41	0	A -3.428 -2.959 -1.922
125-226	15	17	23	1	1	1	67	59	43	79	94	107	4	3	2	51	32	19	
UNKNOWN	4	3	1	2	2	1				2	1	2	0	0	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 7-8-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	2	2		11946	7	6		8172	14	17		2328	9	39	
052-084	750	0	0	******	950	0	0	6.3	666	2	30	16.2	254	0	0	31.6
085-089	718	0	0	******	912	0	0	6.2	552	2	36	16.5	190	1	53	34.1
090-094	940	0	0	******	1260	0	0	6.1	850	0	0	16.8	246	1	41	35.5
095-099	1394	0	0	******	1668	5	30	6.0	1296	2	15	17.0	336	0	0	37.1
100-104	1168	0	0	******	1802	0	0	5.9	1380	1	7	17.2	332	4	120	38.6
105-109	1136	1	9	******	1734	0	0	5.8	1142	1	9	17.4	296	1	34	40.1
110-114	1010	0	0	******	1378	0	0	5.7	918	4	44	17.6	306	0	0	41.9
115-119	632	0	0	******	880	2	23	5.7	586	0	0	17.8	160	1	63	43.5
120-124	424	1	24	******	550	0	0	5.6	420	1	24	18.0	84	0	0	45.5
125-226	542	0	0	******	750	0	0	5.4	332	1	30	18.5	122	1	82	49.5
UNKNOWN	50	0			62	0			30	0			2	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	2	2		15410	2	1		11258	9	8		3532	6	17	
052-084	1884	0	0	******	1670	0	0	******	912	1	11	14.3	394	1	25	36.2
085-089	1490	1	7	******	1654	0	0	******	862	0	0	11.7	226	0	0	26.8
090-094	1690	0	0	******	1908	0	0	******	1130	0	0	10.4	294	1	34	22.8
095-099	1524	0	0	******	2270	0	0	******	1578	3	19	9.2	450	1	22	19.4
100-104	1178	0	0	******	1910	0	0	******	1450	2	14	8.2	454	1	22	16.5
105-109	814	0	0	******	1556	1	6	******	1276	1	8	7.2	424	1	24	14.1
110-114	612	0	0	******	1188	0	0	******	1070	1	9	6.4	290	1	34	12.0
115-119	488	0	0	******	880	0	0	******	798	1	13	5.7	252	0	0	10.2
120-124	314	0	0	******	620	1	16	******	588	0	0	5.0	214	0	0	8.7
125-226	812	1	12	******	1658	0	0	******	1562	0	0	3.4	524	0	0	5.5
UNKNOWN	106	0			96	0			32	0			10	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.003	*******	0.002	-0.024	0.008	-0.032
SE(B)	******	******	0.027	******	0.021	0.022	0.024	0.026
A	*******	*******	-6.459	*******	-5.924	-3.951	-5.713	-2.394

TABLE 7-9-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	12	8	5	14	9	6	1091	1124	1081	3	4	4	3	4	4	
05-14	1	0	1	0	0	0	0	****	0	9	11	7	0	0	0	0	0	0	MEN
15-19	1	5	3	0	0	0	0	0	0	60	46	28	1	1	1	17	22	36	B -0.028 -0.058 -0.108
20-24	12	13	10	1	1	1	83	77	100	234	190	189	0	1	0	0	5	0	SE(B) 0.044 0.052 0.061
25-29	43	45	30	0	1	0	0	22	0	414	476	411	1	1	3	2	2	7	A -3.182 -2.487 -1.143
30-34	155	124	133	3	1	2	19	8	15	284	309	332	1	1	0	4	3	0	
35-39	247	256	244	3	2	0	12	8	0	70	81	96	0	0	0	0	0	0	WOMEN
40-44	235	260	255	3	1	1	13	4	4	10	7	15	0	0	0	0	0	0	B**********
45-49	116	119	141	2	2	1	17	17	7	2	2	1	0	0	0	0	0	0	SE(B)****** ****** ******
50-54	33	38	56	0	0	0	0	0	0	1	0	0	0	0	0	0	****	****	A**********
55-61	5	7	9	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****	
UNKNOWN	10	2	1	0	0	0				7	2	2	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	26	20	18	37	27	25	870	891	925	6	6	6	7	7	6	
05-14	1	1	0	0	0	0	0	0	****	19	29	22	0	0	0	0	0	0	MEN
15-19	3	5	4	0	0	0	0	0	0	107	116	88	1	1	1	9	9	11	B 0.009 0.013 0.021
20-24	24	15	17	1	0	0	42	0	0	326	300	306	4	3	3	12	10	10	SE(B) 0.031 0.036 0.037
25-29	73	71	81	2	1	1	27	14	12	274	308	333	0	1	1	0	3	3	A -3.642 -4.046 -4.393
30-34	170	199	191	3	6	6	18	30	31	122	121	152	1	1	1	8	8	7	
35-39	220	229	208	13	9	6	59	39	29	16	15	22	0	0	0	0	0	0	WOMEN
40-44	142	154	148	4	3	3	28	19	20	2	1	2	0	0	0	0	0	0	B -0.060 -0.011 -0.063
45-49	52	43	48	2	1	2	38	23	42	0	0	0	0	0	0	****	****	****	SE(B) 0.082 0.079 0.079
50-54	15	11	11	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****	A -3.540 -4.730 -3.498
55-61	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****	
UNKNOWN	3	0	1	1	0	0				4	1	0	0	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	20	25	22	61	56	41	426	592	701	16	17	12	38	29	17	
05-14	0	3	4	0	0	0	****	0	0	26	44	52	2	1	2	77	23	38	MEN
15-19	3	12	7	0	1	0	0	83	0	82	140	148	4	9	6	49	64	41	B -0.047 -0.014 -0.005
20-24	18	34	37	1	1	1	56	29	27	203	247	295	10	7	3	49	28	10	SE(B) 0.042 0.032 0.033
25-29	66	80	99	7	6	6	106	75	61	82	137	160	0	0	1	0	0	6	A -1.240 -2.421 -2.989
30-34	103	126	154	5	6	3	49	48	19	24	21	40	0	0	0	0	0	0	
35-39	91	133	155	3	7	11	33	53	71	4	2	5	0	0	0	0	0	0	WOMEN
40-44	34	45	57	3	3	1	88	67	18	0	0	0	0	0	0	****	****	****	B -0.107 -0.131 -0.131
45-49	8	13	12	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****	SE(B) 0.053 0.048 0.053
50-54	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****	A -1.018 -0.930 -1.421
55-61	0	0	0	0	0	0	****	****	****	0	0	0	0	0	0	****	****	****	
UNKNOWN	6	3	2	1	1	0				5	1	1	0	0	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 7-9-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	2	2		11946	7	6		8172	14	17		2328	9	39	
05-14	6	0	0	******	10	0	0	0.3	26	0	0	16.6	14	0	0	37.2
15-19	28	0	0	******	72	0	0	0.7	112	0	0	16.7	76	0	0	36.5
20-24	98	0	0	******	290	0	0	1.1	462	1	22	16.9	256	1	39	35.7
25-29	334	0	0	******	1060	0	0	1.8	1440	2	14	17.0	570	2	35	35.1
30-34	1306	0	0	******	2698	1	4	2.9	2322	3	13	17.1	776	4	52	34.4
35-39	2374	1	4	******	3654	1	3	4.8	2322	6	26	17.3	456	1	22	33.7
40-44	2520	0	0	******	2726	3	11	7.7	1082	2	18	17.4	134	0	0	33.1
45-49	1352	1	7	******	1072	2	19	12.5	294	0	0	17.6	28	0	0	32.4
50-54	598	0	0	******	298	0	0	20.5	74	0	0	17.7	4	0	0	31.9
55-61	124	0	0	******	60	0	0	33.8	10	0	0	17.8	2	0	0	31.3
UNKNOWN	24	0			6	0			28	0			12	1		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	2	2		15410	2	1		11258	9	8		3532	6	17	
05-14	52	0	0	******	206	0	0	******	502	1	20	27.1	390	1	26	31.3
15-19	352	0	0	******	1176	1	9	******	2074	4	19	12.7	1026	2	19	20.1
20-24	1764	1	6	******	4404	0	0	******	4764	3	6	7.4	1456	3	21	14.3
25-29	4284	0	0	******	5890	1	2	******	3020	1	3	4.2	558	0	0	10.0
30-34	3218	1	3	******	3092	0	0	******	786	0	0	2.4	98	0	0	7.0
35-39	1050	0	0	******	564	0	0	******	96	0	0	1.4	4	0	0	5.2
40-44	142	0	0	******	56	0	0	******	2	0	0	0.7	0	0	*****	******
45-49	16	0	0	******	8	0	0	******	2	0	0	0.4	0	0	*****	******
50-54	0	0	*****	******	0	0	*****	******	0	0	*****	******	0	0	*****	******
55-61	2	0	0	******	0	0	*****	******	0	0	*****	******	0	0	*****	******
UNKNOWN	32	0			14	0			12	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.101	*******	0.002	-0.120	-0.004	-0.077
SE(B)	******	******	0.057	******	0.041	0.063	0.057	0.082
A	*******	*******	-10.682	*******	-5.728	-3.888	-4.842	-4.193

TABLE 7-10-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	12	8	5	14	9	6	1091	1124	1081	3	4	4	3	4	4	
NONE	0	119	116	0	4	3	****	34	26	0	329	308	0	0	0	****	0	0	MEN
000-009	0	252	270	0	1	1	****	4	4	0	448	442	0	1	1	****	2	2	B******* -0.018 -0.139
010-019	0	128	126	0	2	1	****	16	8	0	101	98	0	0	0	****	0	0	SE(B)****** 0.019 0.105
020-029	0	75	74	0	0	0	****	0	0	0	60	55	0	1	1	****	17	18	A******* -4.277 -4.143
030-039	0	45	53	0	0	0	****	0	0	0	35	32	0	0	0	****	0	0	
040-049	0	45	44	0	0	0	****	0	0	0	15	13	0	0	0	****	0	0	WOMEN
050-059	0	26	26	0	0	0	****	0	0	0	8	7	0	0	0	****	0	0	B**********
060-069	0	23	21	0	0	0	****	0	0	0	21	22	0	0	0	****	0	0	SE(B)****** ****** ******
070-079	0	17	16	0	1	0	****	59	0	0	5	5	0	1	1	****	200	200	A**********
080-457	0	57	56	0	0	0	****	0	0	0	10	9	0	0	0	****	0	0	
UNKNOWN	858	82	81	12	0	0				1091	92	90	3	1	1				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	26	20	18	37	27	25	870	891	925	6	6	6	7	7	6	
NONE	0	133	121	0	3	3	****	23	25	0	369	361	0	3	3	****	8	8	MEN
000-009	0	201	197	0	7	7	****	35	36	0	309	337	0	1	1	****	3	3	B******* 0.000 -0.000
010-019	0	77	76	0	1	1	****	13	13	0	53	54	0	1	1	****	19	19	SE(B)****** 0.007 0.007
020-029	0	55	60	0	2	2	****	36	33	0	34	38	0	0	0	****	0	0	A******* -3.535 -3.541
030-039	0	62	59	0	1	1	****	16	17	0	30	34	0	0	0	****	0	0	
040-049	0	34	33	0	1	0	****	29	0	0	16	17	0	0	0	****	0	0	WOMEN
050-059	0	27	23	0	1	1	****	37	43	0	4	3	0	0	0	****	0	0	B******* 0.018 0.017
060-069	0	23	30	0	2	2	****	87	67	0	7	10	0	1	1	****	143	100	SE(B)****** 0.017 0.018
070-079	0	6	7	0	0	0	****	0	0	0	1	1	0	0	0	****	0	0	A******* -5.080 -5.116
080-457	0	47	40	0	1	1	****	21	25	0	7	7	0	0	0	****	0	0	
UNKNOWN	705	65	65	26	1	0				870	61	63	6	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	20	25	22	61	56	41	426	592	701	16	17	12	38	29	17	
NONE	0	99	115	0	9	5	****	91	43	0	294	342	0	10	7	****	34	20	MEN
000-009	0	135	154	0	4	4	****	30	26	0	178	213	0	1	1	****	6	5	B******* -0.011 -0.007
010-019	0	36	51	0	3	4	****	83	78	0	19	32	0	0	0	****	0	0	SE(B)****** 0.009 0.008
020-029	0	21	27	0	2	2	****	95	74	0	20	25	0	0	0	****	0	0	A******* -2.707 -3.122
030-039	0	33	39	0	2	1	****	61	26	0	19	20	0	2	1	****	105	50	
040-049	0	19	24	0	0	1	****	0	42	0	5	7	0	0	0	****	0	0	WOMEN
050-059	0	10	13	0	0	0	****	0	0	0	2	4	0	0	0	****	0	0	B******* 0.022 0.025
060-069	0	7	7	0	0	0	****	0	0	0	0	0	0	0	0	****	****	****	SE(B)****** 0.009 0.009
070-079	0	11	11	0	0	0	****	0	0	0	2	1	0	0	0	****	0	0	A******* -3.831 -4.405
080-457	0	34	43	0	1	1	****	29	23	0	5	5	0	1	1	****	200	200	
UNKNOWN	330	45	47	20	4	4				426	48	52	16	3	2				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 7-10-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	2	2		11946	7	6		8172	14	17		2328	9	39	
NONE	996	1	10	******	1754	1	6	6.3	1666	3	18	20.0	504	3	60	43.3
000-009	2250	0	0	******	2924	2	7	6.1	2064	4	19	19.5	638	1	16	43.1
010-019	1030	1	10	******	1252	1	8	5.4	740	1	14	17.7	210	1	48	42.0
020-029	590	0	0	******	812	0	0	4.8	476	1	21	16.1	164	1	61	40.9
030-039	434	0	0	******	866	0	0	4.3	572	1	17	15.0	180	2	111	40.2
040-049	366	0	0	******	588	0	0	3.8	414	1	24	13.5	104	0	0	39.1
050-059	156	0	0	******	256	1	39	3.4	170	0	0	12.4	68	0	0	38.2
060-069	262	0	0	******	486	0	0	3.0	322	1	31	11.4	88	0	0	37.5
070-079	140	0	0	******	242	0	0	2.6	144	0	0	10.3	44	0	0	36.4
080-457	544	0	0	******	954	0	0	1.6	588	0	0	7.2	196	1	51	32.5
UNKNOWN	1996	0			1812	2			1016	2			132	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	2	2		15410	2	1		11258	9	8		3532	6	17	
NONE	2518	0	0	******	4550	2	4	******	4830	5	10	6.8	1828	4	22	14.5
000-009	3744	0	0	******	5350	0	0	******	3386	1	3	7.1	966	0	0	15.4
010-019	850	0	0	******	1040	0	0	******	462	0	0	8.3	152	0	0	19.5
020-029	456	0	0	******	628	0	0	******	380	0	0	9.6	154	0	0	24.2
030-039	384	0	0	******	728	0	0	******	482	1	21	11.0	136	1	74	29.7
040-049	136	0	0	******	268	0	0	******	168	0	0	13.2	54	0	0	38.1
050-059	66	0	0	******	88	0	0	******	62	0	0	15.1	14	0	0	48.8
060-069	204	1	49	******	324	0	0	******	112	0	0	17.4	28	1	357	59.6
070-079	46	0	0	******	94	0	0	******	34	0	0	21.7	16	0	0	81.7
080-457	94	1	106	******	186	0	0	******	126	1	79	38.0	10	0	0	214.1
UNKNOWN	2414	0			2154	0			1216	1			174	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.012	*******	-0.009	0.016	-0.002	0.023
SE(B)	******	******	0.018	******	0.011	0.011	0.010	0.014
A	*******	*******	-6.669	*******	-5.517	-6.603	-4.740	-5.839

TABLE 7-11-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	12	8	5	14	9	5	1091	1124	1081	3	4	4	3	4	4	
																			MEN
NONE	242	242	255	1	1	0	4	4	0	531	522	494	2	1	1	4	2	2	B 0.188 0.271 1.170
UNDER 20	147	144	139	3	2	0	20	14	0	355	376	371	0	0	0	0	0	0	SE(B) 0.260 0.324 0.658
20	252	253	258	6	2	2	24	8	8	152	173	163	1	2	2	7	12	12	A -4.558 -5.134 -7.679
OVER 20	213	224	226	2	3	3	9	13	13	44	47	47	0	1	1	0	21	21	
																			WOMEN
UNKNOWN	4	6	5	0	0	0				8	6	6	0	0	0				B -0.093 1.057 1.047
																			SE(B) 0.708 0.510 0.508
																			A -5.821 -6.936 -6.887
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	26	20	18	37	27	25	870	891	925	6	6	6	7	7	6	
																			MEN
NONE	271	266	258	9	4	4	33	15	16	593	576	560	3	3	3	5	5	5	B 0.299 0.523 0.329
UNDER 20	111	114	112	2	1	2	18	9	18	178	205	234	2	2	2	11	10	9	SE(B) 0.174 0.215 0.207
20	169	185	176	2	5	6	12	27	34	70	78	97	1	1	1	14	13	10	A -3.732 -4.480 -4.150
OVER 20	147	157	158	12	9	6	82	57	38	23	29	31	0	0	0	0	0	0	
																			WOMEN
UNKNOWN	7	8	7	1	1	0				6	3	3	0	0	0				B 0.319 0.230 0.144
																			SE(B) 0.452 0.457 0.469
																			A -5.138 -5.124 -5.117
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	20	25	22	61	56	41	426	592	701	16	17	12	38	29	17	
																			MEN
NONE	160	214	231	10	13	10	63	61	43	338	454	518	13	14	10	38	31	19	B 0.020 -0.016 0.143
UNDER 20	65	84	106	3	5	4	46	60	38	62	94	125	2	2	1	32	21	8	SE(B) 0.223 0.191 0.194
20	68	96	122	3	2	1	44	21	8	16	29	38	1	1	1	63	34	26	A -2.804 -2.813 -3.300
OVER 20	34	54	70	3	5	7	88	93	100	8	11	16	0	0	0	0	0	0	
																			WOMEN
UNKNOWN	3	2	2	1	0	0				2	4	4	0	0	0				B -0.080 -0.223 -0.276
																			SE(B) 0.433 0.441 0.512
																			A -3.218 -3.453 -3.961

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 7-11-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	2	2		11946	7	6		8172	14	17		2328	9	39	
NONE	2708	0	0	******	4440	2	5	4.4	3920	4	10	12.6	1380	8	58	50.5
UNDER 20	1376	0	0	******	1710	0	0	4.8	1360	3	22	15.5	430	0	0	29.9
20	2378	0	0	******	2868	3	10	5.4	1592	4	25	19.0	288	0	0	17.7
OVER 20	2250	2	9	******	2864	1	3	5.9	1260	2	16	23.4	222	1	45	10.4
UNKNOWN	52	0			64	1			40	1			8	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	2	2		15410	2	1		11258	9	8		3532	6	17	
NONE	5010	0	0	0.1	8710	0	0	0.3	8024	6	7	8.6	2824	5	18	18.4
UNDER 20	3482	0	0	0.5	3664	1	3	0.9	1966	3	15	7.2	492	1	20	12.9
20	1734	1	6	3.1	2144	0	0	2.9	838	0	0	6.0	142	0	0	9.1
OVER 20	628	1	16	19.9	830	1	12	9.7	386	0	0	5.0	56	0	0	6.4
UNKNOWN	58	0			62	0			44	0			18	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	1.852	0.103	1.191	0.208	-0.179	-0.528	-0.355
SE(B)	******	0.966	0.338	0.694	0.233	0.490	0.477	0.877
A	*******	-11.081	-7.043	-9.817	-5.984	-6.365	-4.585	-5.600

TABLE 7-12-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: ALBUMIN IN URINE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	12	8	5	14	9	6	1091	1124	1081	3	4	4	3	4	4	
																			MEN
NO	816	857	865	11	8	4	13	9	5	988	1079	1031	2	3	4	2	3	4	B********** 1.521
POSSIBLE	2	0	3	0	0	0	0	****	0	7	1	5	1	0	0	143	0	0	SE(B)****** ****** 0.586
DEFINITE	21	6	11	0	0	1	0	0	91	72	40	42	0	1	0	0	25	0	A********** -5.380
UNKNOWN	19	6	4	1	0	0				24	4	3	0	0	0				WOMEN
																			B 0.495 1.108*******
																			SE(B) 0.784 0.584 ******
																			A -5.983 -5.884*******
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	26	20	18	37	27	25	870	891	925	6	6	6	7	7	6	
																			MEN
NO	671	718	702	23	19	18	34	26	26	794	854	880	6	6	6	8	7	7	B 0.464 0.704*******
POSSIBLE	1	0	0	0	0	0	0	****	****	7	4	6	0	0	0	0	0	0	SE(B) 0.385 0.540 ******
DEFINITE	24	10	9	2	1	0	83	100	0	59	31	38	0	0	0	0	0	0	A -3.340 -3.605*******
UNKNOWN	9	2	0	1	0	0				10	2	1	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	20	25	22	61	56	41	426	592	701	16	17	12	38	29	17	
																			MEN
NO	308	433	509	15	23	19	49	53	37	396	570	672	11	14	10	28	25	15	B 0.579 0.181 0.460
POSSIBLE	1	1	5	0	0	1	0	0	200	0	1	2	0	0	0	****	0	0	SE(B) 0.406 0.535 0.455
DEFINITE	14	13	15	2	1	1	143	77	67	22	17	24	4	2	2	182	118	83	A -2.975 -2.882 -3.231
UNKNOWN	7	3	2	3	1	1				8	4	3	1	1	0				WOMEN
																			B 1.026 0.827 0.889
																			SE(B) 0.316 0.401 0.404
																			A -3.555 -3.684 -4.196

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 7-12-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: ALBUMIN IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	2	2		11946	7	6		8172	14	17		2328	9	39	
NO	8532	2	2	******	11668	6	5	5.1	7752	10	13	12.7	2186	8	37	36.4
POSSIBLE	20	0	0	******	42	0	0	15.8	74	0	0	34.3	16	0	0	53.9
DEFINITE	138	0	0	******	200	1	50	48.3	314	3	96	91.5	120	1	83	79.7
UNKNOWN	74	0			36	0			32	1			6	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	2	2		15410	2	1		11258	9	8		3532	6	17	
NO	10332	2	2	******	14710	2	1	******	10774	9	8	******	3364	6	18	******
POSSIBLE	88	0	0	******	132	0	0	******	112	0	0	******	32	0	0	******
DEFINITE	420	0	0	******	530	0	0	******	332	0	0	******	122	0	0	******
UNKNOWN	72	0			38	0			40	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	1.128	*******	0.994	*******	0.396	*******
SE(B)	******	******	0.548	******	0.336	******	0.541	******
A	*******	*******	-6.884	*******	-5.970	*******	-4.915	*******

TABLE 7-13-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: SUGAR IN URINE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	12	8	5	14	9	6	1091	1124	1081	3	4	4	3	4	4	
																			MEN
NO	818	859	873	11	8	5	13	9	6	1055	1116	1073	3	4	4	3	4	4	B**********
POSSIBLE	13	2	0	0	0	0	0	0	****	7	0	0	0	0	0	0	****	****	SE(B)****** ****** ******
DEFINITE	8	2	6	0	0	0	0	0	0	5	4	5	0	0	0	0	0	0	A**********
UNKNOWN	19	6	4	1	0	0				24	4	3	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	26	20	18	37	27	25	870	891	925	6	6	6	7	7	6	
																			MEN
NO	665	704	689	24	19	18	36	27	26	840	879	913	6	6	6	7	7	7	B 0.199 0.422*******
POSSIBLE	20	11	10	0	0	0	0	0	0	11	1	1	0	0	0	0	0	0	SE(B) 0.594 0.562 ******
DEFINITE	11	13	12	1	1	0	91	77	0	9	9	10	0	0	0	0	0	0	A -3.304 -3.597*******
UNKNOWN	9	2	0	1	0	0				10	2	1	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	20	25	22	61	56	41	426	592	701	16	17	12	38	29	17	
																			MEN
NO	309	437	512	15	21	18	49	48	35	404	572	684	13	15	11	32	26	16	B 0.814 1.131 1.019
POSSIBLE	9	1	4	1	0	0	111	0	0	5	4	1	1	0	0	200	0	0	SE(B) 0.518 0.371 0.353
DEFINITE	5	9	13	1	3	3	200	333	231	9	12	13	1	1	1	111	83	77	A -2.973 -2.990 -3.323
UNKNOWN	7	3	2	3	1	1				8	4	3	1	1	0				WOMEN
																			B 0.810 0.560 0.806
																			SE(B) 0.478 0.549 0.544
																			A -3.378 -3.621 -4.115

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 7-13-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: SUGAR IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	2	2		11946	7	6		8172	14	17		2328	9	39	
NO	8586	2	2	******	11618	7	6	******	7870	12	15	15.2	2214	6	27	26.8
POSSIBLE	44	0	0	******	106	0	0	******	52	0	0	25.5	14	0	0	93.0
DEFINITE	68	0	0	******	188	0	0	******	218	1	46	42.8	94	3	319	312.2
UNKNOWN	66	0			34	0			32	1			6	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	2	2		15410	2	1		11258	9	8		3532	6	17	
NO	10762	1	1	0.9	15202	2	1	******	11016	7	6	6.8	3456	5	14	14.4
POSSIBLE	16	0	0	12.3	44	0	0	******	48	1	208	24.9	10	0	0	52.4
DEFINITE	62	1	161	159.7	128	0	0	******	158	1	63	91.1	52	1	192	187.3
UNKNOWN	72	0			36	0			36	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	2.594	*******	*******	0.522	1.310	1.257	1.301
SE(B)	******	0.716	******	******	0.532	0.456	0.365	0.561
A	*******	-8.600	*******	*******	-5.795	-6.606	-5.223	-5.848

TABLE 7-14-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	12	8	5	14	9	6	1091	1124	1081	3	4	4	3	4	4
NO	765	770	806	10	6	4	13	8	5	951	1017	1011	2	2	2	2	2	2
POSSIBLE	26	34	41	0	0	1	0	0	24	55	39	36	0	0	0	0	0	0
DEFINITE	63	64	36	2	2	0	32	31	0	81	67	33	1	2	2	12	30	61
UNKNOWN	4	1	0	0	0	0				4	1	1	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	26	20	18	37	27	25	870	891	925	6	6	6	7	7	6
NO	561	634	629	20	17	14	36	27	22	620	673	747	3	5	6	5	7	8
POSSIBLE	22	39	41	1	2	1	45	51	24	59	76	100	1	0	0	17	0	0
DEFINITE	118	57	41	4	1	3	34	18	73	185	142	78	2	1	0	11	7	0
UNKNOWN	4	0	0	1	0	0				6	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	20	25	22	61	56	41	426	592	701	16	17	12	38	29	17
NO	241	349	436	15	17	16	62	49	37	250	356	455	5	6	4	20	17	9
POSSIBLE	15	41	45	0	4	4	0	98	89	34	76	107	1	3	2	29	39	19
DEFINITE	73	60	50	5	4	2	68	67	40	138	160	139	10	8	6	72	50	43
UNKNOWN	1	0	0	0	0	0				4	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.398	0.660	0.298
SE(B)	0.407	0.431	0.820
A	-4.349	-4.889	-5.216
WOMEN			
B	0.854	1.373	1.739
SE(B)	0.646	0.522	0.532
A	-6.228	-6.302	-6.319
AGE 45-54 AT EXAM			
MEN			
B	-0.015	-0.031	0.579
SE(B)	0.272	0.408	0.330
A	-3.292	-3.563	-3.804
WOMEN			
B	0.425	-0.137	*******
SE(B)	0.434	0.593	******
A	-5.242	-4.943	*******
AGE 55-64 AT EXAM			
MEN			
B	0.016	0.233	0.216
SE(B)	0.275	0.262	0.311
A	-2.746	-2.929	-3.209
WOMEN			
B	0.678	0.555	0.815
SE(B)	0.281	0.268	0.327
A	-3.921	-4.011	-4.735

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 7-14-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	2	2		11946	7	6		8172	14	17		2328	9	39	
NO	7978	2	3	******	10198	4	4	3.5	6360	12	19	19.7	1564	7	45	44.3
POSSIBLE	358	0	0	******	856	0	0	10.1	828	2	24	10.6	362	1	28	31.9
DEFINITE	418	0	0	******	886	3	34	29.0	982	0	0	5.7	402	1	25	23.0
UNKNOWN	10	0			6	0			2	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	2	2		15410	2	1		11258	9	8		3532	6	17	
NO	10064	1	1	0.9	12536	1	1	0.7	7168	1	1	4.4	1734	3	17	14.1
POSSIBLE	368	0	0	4.3	1346	0	0	2.0	1816	6	33	9.0	650	0	0	17.3
DEFINITE	466	1	21	19.8	1522	1	7	5.7	2266	2	9	18.4	1148	3	26	21.2
UNKNOWN	14	0			6	0			8	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	1.538	1.060	1.055	-0.622	0.714	-0.330	0.207
SE(B)	******	0.737	0.409	0.760	0.594	0.372	0.511	0.454
A	*******	-8.605	-7.264	-8.886	-5.530	-7.027	-4.718	-5.871

TABLE 7-15-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	12	8	5	14	9	6	1091	1124	1081	3	4	4	3	4	4	
																			MEN
NO	834	836	853	12	8	5	14	10	6	1081	1105	1062	3	4	4	3	4	4	B**********
POSSIBLE	15	25	25	0	0	0	0	0	0	7	15	15	0	0	0	0	0	0	SE(B)****** ****** ******
DEFINITE	9	8	5	0	0	0	0	0	0	3	4	4	0	0	0	0	0	0	A**********
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	26	20	18	37	27	25	870	891	925	6	6	6	7	7	6	
																			MEN
NO	672	685	664	24	19	17	36	28	26	839	848	889	6	5	5	7	6	6	B 0.353 0.067 0.112
POSSIBLE	18	24	27	1	0	0	56	0	0	15	30	25	0	1	1	0	33	40	SE(B) 0.474 0.577 0.584
DEFINITE	15	21	20	1	1	1	67	48	50	16	13	11	0	0	0	0	0	0	A -3.294 -3.576 -3.662
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B******* 0.685 0.819
																			SE(B)****** 0.835 0.828
																			A******* -5.066 -5.110
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	20	25	22	61	56	41	426	592	701	16	17	12	38	29	17	
																			MEN
NO	300	405	477	15	20	19	50	49	40	410	537	629	16	17	11	39	32	17	B 0.755 0.475 0.410
POSSIBLE	13	24	27	2	3	0	154	125	0	6	32	41	0	0	0	0	0	0	SE(B) 0.323 0.332 0.350
DEFINITE	17	21	27	3	2	3	176	95	111	10	23	31	0	0	1	0	0	32	A -2.921 -2.929 -3.225
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B********** 0.088
																			SE(B)****** ****** 0.592
																			A********** -4.064

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 7-15-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	2	2		11946	7	6		8172	14	17		2328	9	39	
NO	8462	2	2	******	11202	5	4	4.1	7316	13	18	17.2	1994	5	25	27.1
POSSIBLE	242	0	0	******	500	0	0	16.4	508	0	0	16.8	182	2	110	65.8
DEFINITE	60	0	0	******	244	2	82	65.2	348	1	29	16.5	152	2	132	158.0
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	2	2		15410	2	1		11258	9	8		3532	6	17	
NO	10720	1	1	0.9	14892	2	1	******	10258	7	7	6.9	3066	3	10	11.6
POSSIBLE	136	0	0	12.0	378	0	0	******	632	1	16	14.1	278	2	72	31.2
DEFINITE	56	1	179	164.0	140	0	0	******	368	1	27	28.7	188	1	53	83.3
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	2.644	1.389	*******	-0.022	0.716	0.895	0.992
SE(B)	******	0.744	0.454	******	0.592	0.494	0.388	0.476
A	*******	-8.672	-7.106	*******	-5.670	-6.587	-5.213	-6.061

TABLE 7-16-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	12	8	5	14	9	6	1091	1124	1081	3	4	4	3	4	4	
																			MEN
NO	840	851	859	12	7	5	14	8	6	1074	1109	1068	3	4	4	3	4	4	B******* 1.959*******
YES	18	18	24	0	1	0	0	56	0	17	15	13	0	0	0	0	0	0	SE(B)****** 1.097 ******
																			A******* -4.792*******
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	26	20	18	37	27	25	870	891	925	6	6	6	7	7	6	
																			MEN
NO	684	709	687	24	20	17	35	28	25	849	858	894	6	6	6	7	7	7	B 1.063****** 0.539
YES	21	21	24	2	0	1	95	0	42	21	33	31	0	0	0	0	0	0	SE(B) 0.772 ****** 1.051
																			A -3.314******* -3.674
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	20	25	22	61	56	41	426	592	701	16	17	12	38	29	17	
																			MEN
NO	320	431	501	18	23	20	56	53	40	414	561	653	14	15	10	34	27	15	B 1.434 0.736 0.541
YES	10	19	30	2	2	2	200	105	67	12	31	48	2	2	2	167	65	42	SE(B) 0.827 0.778 0.767
																			A -2.820 -2.876 -3.180
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 1.743 0.920 1.028
																			SE(B) 0.821 0.777 0.789
																			A -3.352 -3.595 -4.164

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 7-16-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	2	2		11946	7	6		8172	14	17		2328	9	39	
NO	8552	2	2	2.3	11436	7	6	6.1	7684	14	18	18.2	2142	7	33	32.7
YES	212	0	0	0.0	510	0	0	0.0	488	0	0	0.0	186	2	108	107.5
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	2	2		15410	2	1		11258	9	8		3532	6	17	
NO	10720	2	2	1.9	14896	1	1	0.7	10606	7	7	6.6	3260	5	15	15.3
YES	192	0	0	0.0	514	1	19	19.5	652	2	31	30.7	272	1	37	36.8
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	*******	3.370	*******	1.541	1.206	0.879
SE(B)	******	******	******	1.416	******	0.804	0.809	1.099
A	*******	*******	*******	-8.916	*******	-6.629	-5.024	-5.784

TABLE 7-17-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: DIABETES MELLITUS

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	858	869	883	12	8	5	14	9	6	1091	1124	1081	3	4	4	3	4	4	
																			MEN
NO	846	859	873	12	8	5	14	9	6	1083	1118	1075	3	3	3	3	3	3	B**********
YES	12	10	10	0	0	0	0	0	0	8	6	6	0	1	1	0	167	167	SE(B)****** ****** ******
																			A**********
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B******* 4.309 4.269
																			SE(B)****** 1.239 1.239
																			A******* -5.918 -5.879
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	705	730	711	26	20	18	37	27	25	870	891	925	6	6	6	7	7	6	
																			MEN
NO	683	705	690	24	18	18	35	26	26	849	876	904	6	6	6	7	7	7	B 1.010 1.200*******
YES	22	25	21	2	2	0	91	80	0	21	15	21	0	0	0	0	0	0	SE(B) 0.770 0.775 ******
																			A -3.313 -3.642*******
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	330	450	531	20	25	22	61	56	41	426	592	701	16	17	12	38	29	17	
																			MEN
NO	316	432	510	16	21	18	51	49	35	414	567	673	14	14	10	34	25	15	B 2.015 1.721 1.861
YES	14	18	21	4	4	4	286	222	190	12	25	28	2	3	2	167	120	71	SE(B) 0.645 0.609 0.605
																			A -2.931 -2.974 -3.308
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 1.743 1.684 1.629
																			SE(B) 0.821 0.672 0.800
																			A -3.352 -3.676 -4.194

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 7-17-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: DIABETES MELLITUS

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	2	2		11946	7	5		8172	14	17		2328	9	39	
NO	8674	2	2	2.3	11602	7	6	6.0	7784	13	17	16.7	2172	7	32	32.2
YES	90	0	0	0.0	344	0	0	0.0	388	1	26	25.8	156	2	128	128.2
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	2	2		15410	2	1		11258	9	8		3532	6	17	
NO	10838	1	1	0.9	15144	2	1	1.3	10856	8	7	7.4	3330	5	15	15.0
YES	74	1	135	135.1	266	0	0	0.0	402	1	25	24.9	202	1	50	49.5
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	5.014	*******	*******	0.436	1.220	1.400	1.200
SE(B)	******	1.424	******	******	1.040	1.063	0.811	1.100
A	*******	-8.597	*******	*******	-5.698	-6.518	-5.038	-5.805

TABLE 7-18-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HYPERTENSION

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	858	869	883	12	8	5	14	9	6	1091	1124	1081	3	4	4	3	4	4
NO	379	499	593	5	2	1	13	4	2	707	872	870	0	1	1	0	1	1
BORDER	351	262	209	4	4	4	11	15	19	291	187	168	3	3	2	10	16	12
DEFINITE	128	108	81	3	2	0	23	19	0	93	65	43	0	0	1	0	0	23
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	705	730	711	26	20	18	37	27	25	870	891	925	6	6	6	7	7	6
NO	281	369	389	6	11	8	21	30	21	306	415	506	1	0	1	3	0	2
BORDER	262	236	213	11	5	7	42	21	33	357	298	256	3	3	2	8	10	8
DEFINITE	162	125	109	9	4	3	56	32	28	207	178	163	2	3	3	10	17	18
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	330	450	531	20	25	22	61	56	41	426	592	701	16	17	12	38	29	17
NO	119	201	273	2	6	6	17	30	22	101	160	252	1	1	2	10	6	8
BORDER	125	153	157	9	7	6	72	46	38	176	228	247	5	6	3	28	26	12
DEFINITE	86	96	101	9	12	10	105	125	99	149	204	202	10	10	7	67	49	35
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.244	0.775	0.701
SE(B)	0.396	0.446	0.559
A	-4.443	-5.270	-5.586
WOMEN			
B	*******	0.948	1.519
SE(B)	******	0.615	0.605
A	*******	-6.096	-6.437
AGE 45-54 AT EXAM			
MEN			
B	0.481	-0.029	0.207
SE(B)	0.257	0.304	0.308
A	-3.728	-3.551	-3.788
WOMEN			
B	0.487	1.295	1.079
SE(B)	0.544	0.600	0.527
A	-5.469	-6.457	-6.086
AGE 55-64 AT EXAM			
MEN			
B	0.810	0.801	0.809
SE(B)	0.318	0.268	0.272
A	-3.644	-3.626	-3.880
WOMEN			
B	0.948	0.877	0.817
SE(B)	0.411	0.377	0.403
A	-4.518	-4.669	-5.012

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 7-18-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HYPERTENSION

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	2	2		11946	7	6		8172	14	17		2328	9	39	
NO	5204	1	2	2.3	6210	3	5	3.0	3742	4	11	11.1	932	1	11	15.0
BORDER	2568	1	4	2.2	3664	0	0	6.4	2618	5	19	17.8	886	4	45	36.1
DEFINITE	992	0	0	2.1	2072	4	19	13.7	1812	5	28	28.5	510	4	78	86.3
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	2	2		15410	2	1		11258	9	8		3532	6	17	
NO	8326	1	1	0.8	8578	0	0	******	4070	2	5	5.9	840	1	12	6.6
BORDER	1960	0	0	3.1	4456	2	4	******	4064	4	10	8.0	1404	1	7	13.5
DEFINITE	626	1	16	11.2	2376	0	0	******	3124	3	10	10.8	1288	4	31	27.6
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	-0.041	1.295	0.767	*******	0.472	0.308	0.881	0.718
SE(B)	1.039	0.846	0.470	******	0.329	0.421	0.459	0.620
A	-7.671	-8.691	-7.433	*******	-6.105	-6.749	-5.804	-6.631

TABLE 7-19-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: GLUCOSE INTOLERANCE

	- MEN -									- WOMEN -									LOGISTIC PARAMETERS		
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000					
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																					
TOTAL	858	869	883	12	8	5	14	9	6	1091	1124	1081	3	4	4	3	4	4			
NO	820	850	864	12	8	5	15	9	6	1068	1108	1062	2	2	2	2	2	2			
YES	38	19	19	0	0	0	0	0	0	23	16	19	1	2	2	43	125	105			
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0						
AGE 35-44 AT EXAM																					
MEN																					
B																			**********	**********	**********
SE(B)																			******	******	******
A																			**********	**********	**********
WOMEN																					
B																			3.187	4.369	4.133
SE(B)																			1.244	1.036	1.029
A																			-6.279	-6.315	-6.273
AGE 45-54 AT EXAM																					
TOTAL	705	730	711	26	20	18	37	27	25	870	891	925	6	6	6	7	7	6			
NO	657	680	672	24	17	18	37	25	27	830	866	892	6	6	6	7	7	7			
YES	48	50	39	2	3	0	42	60	0	40	25	33	0	0	0	0	0	0			
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0						
AGE 45-54 AT EXAM																					
MEN																					
B																			0.137	0.912*******	
SE(B)																			0.752	0.644 ******	
A																			-3.272	-3.664*******	
WOMEN																					
B																			**********	**********	**********
SE(B)																			******	******	******
A																			**********	**********	**********
AGE 55-64 AT EXAM																					
TOTAL	330	450	531	20	25	22	61	56	41	426	592	701	16	17	12	38	29	17			
NO	304	423	492	15	21	18	49	50	37	395	552	653	12	13	10	30	24	15			
YES	26	27	39	5	4	4	192	148	103	31	40	48	4	4	2	129	100	42			
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0						
AGE 55-64 AT EXAM																					
MEN																					
B																			1.523	1.203	1.102
SE(B)																			0.564	0.586	0.580
A																			-2.958	-2.952	-3.271
WOMEN																					
B																			1.554	1.528	1.028
SE(B)																			0.611	0.597	0.789
A																			-3.463	-3.725	-4.164

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 7-19-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: NONSUDDEN DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: GLUCOSE INTOLERANCE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8764	2	2		11946	7	6		8172	14	17		2328	9	39	
NO	8504	2	2	2.4	11284	7	6	6.2	7536	12	16	15.9	2098	5	24	23.8
YES	260	0	0	0.0	662	0	0	0.0	636	2	31	31.4	230	4	174	173.9
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10912	2	2		15410	2	1		11258	9	8		3532	6	17	
NO	10734	1	1	0.9	14926	1	1	0.7	10578	7	7	6.6	3202	5	16	15.6
YES	178	1	56	56.2	484	1	21	20.7	680	2	29	29.4	330	1	30	30.3
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	4.111	*******	3.433	0.684	1.496	2.018	0.666
SE(B)	******	1.418	******	1.416	0.766	0.804	0.678	1.099
A	*******	-8.588	*******	-8.918	-5.746	-6.626	-5.341	-5.766

TABLE 8-1-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	896	21	14	9	24	16	10	1095	1127	1083	12	11	10	11	10	9
074-109	35	71	92	0	1	0	0	14	0	102	204	248	1	3	2	10	15	8
110-119	116	163	192	0	1	1	0	6	5	234	311	312	2	1	3	9	3	10
120-129	185	219	246	2	1	0	11	5	0	280	268	263	0	1	0	0	4	0
130-139	237	207	186	6	5	3	25	24	16	212	180	138	4	2	1	19	11	7
140-149	156	127	101	4	3	2	26	24	20	120	83	67	2	1	1	17	12	15
150-159	56	49	38	4	0	2	71	0	53	68	43	28	2	2	2	29	47	71
160-169	41	22	21	3	1	0	73	45	0	46	17	14	0	1	0	0	59	0
170-179	24	13	10	1	0	0	42	0	0	18	10	6	0	0	1	0	0	167
180-189	7	6	8	1	1	1	143	167	125	7	8	2	1	0	0	143	0	0
190-300	8	5	2	0	1	0	0	200	0	8	3	5	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	725	744	729	37	29	26	51	39	36	875	906	938	29	17	10	33	19	11
074-109	23	48	52	0	0	0	0	0	0	23	49	104	0	0	0	0	0	0
110-119	85	122	138	3	2	1	35	16	7	66	129	165	1	2	1	15	16	6
120-129	149	163	165	4	3	4	27	18	24	142	156	175	4	3	2	28	19	11
130-139	141	167	146	7	7	5	50	42	34	177	181	172	4	1	4	23	6	23
140-149	126	110	109	1	2	4	8	18	37	134	129	103	1	4	0	7	31	0
150-159	76	61	53	6	4	5	79	66	94	108	96	83	4	2	0	37	21	0
160-169	53	32	32	5	3	4	94	94	125	77	62	50	2	0	0	26	0	0
170-179	31	15	17	4	2	0	129	133	0	55	31	40	4	2	0	73	65	0
180-189	18	12	7	1	3	0	56	250	0	41	34	21	3	1	3	73	29	143
190-300	23	14	10	6	3	3	261	214	300	52	39	25	6	2	0	115	51	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	341	492	581	18	31	33	53	63	57	435	606	732	31	42	45	71	69	61
074-109	10	25	48	1	1	3	100	40	63	13	17	27	0	1	0	0	59	0
110-119	24	54	83	0	6	3	0	111	36	17	38	56	0	2	1	0	53	18
120-129	53	82	107	2	0	0	38	0	0	41	64	111	2	0	2	49	0	18
130-139	66	105	112	2	4	4	30	38	36	67	85	125	1	0	6	15	0	48
140-149	56	71	65	4	3	4	71	42	62	61	82	93	3	4	5	49	49	54
150-159	52	49	63	1	2	6	19	41	95	66	104	89	6	9	4	91	87	45
160-169	25	41	38	2	6	3	80	146	79	43	70	65	2	6	5	47	86	77
170-179	22	19	17	1	2	2	45	105	118	45	49	59	6	3	5	133	61	85
180-189	11	15	17	0	1	1	0	67	59	26	33	45	2	6	7	77	182	156
190-300	22	31	31	5	6	7	227	194	226	56	64	62	9	11	10	161	172	161
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.033	0.033	0.036
SE(B)	0.010	0.013	0.012
A	-8.320	-8.606	-9.363
WOMEN			
B	0.015	0.016	0.025
SE(B)	0.013	0.014	0.014
A	-6.484	-6.619	-7.752
AGE 45-54 AT EXAM			
MEN			
B	0.028	0.036	0.035
SE(B)	0.006	0.007	0.009
A	-6.930	-8.361	-8.147
WOMEN			
B	0.017	0.016	0.013
SE(B)	0.005	0.007	0.011
A	-6.051	-6.244	-6.383
AGE 55-64 AT EXAM			
MEN			
B	0.021	0.020	0.025
SE(B)	0.007	0.006	0.006
A	-6.118	-5.612	-6.409
WOMEN			
B	0.021	0.023	0.023
SE(B)	0.005	0.005	0.004
A	-6.037	-6.271	-6.358

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 8-1-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	2	2		12616	25	20		9044	32	35		2804	18	64	
074-109	718	0	0	******	768	0	0	7.2	520	1	19	8.9	142	0	0	36.5
110-119	1746	1	6	******	2114	4	19	9.7	1132	2	18	12.2	246	2	81	42.3
120-129	2346	0	0	******	2740	1	4	12.5	1644	3	18	16.1	396	0	0	47.1
130-139	2086	0	0	******	2732	4	15	16.5	1728	3	17	21.8	524	3	57	53.6
140-149	1204	0	0	******	1818	3	17	21.6	1360	2	15	29.1	460	4	87	60.2
150-159	530	1	19	******	1110	4	36	28.4	954	4	42	39.1	346	2	58	67.6
160-169	256	0	0	******	602	4	66	37.0	640	6	94	51.7	240	4	167	75.8
170-179	140	0	0	******	332	2	60	48.3	414	1	24	69.1	142	1	70	85.5
180-189	64	0	0	******	206	0	0	64.3	262	3	115	90.8	114	0	0	96.9
190-300	44	0	0	******	194	3	155	117.0	390	7	179	193.2	194	2	103	130.0
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	4	4		15826	14	9		11884	29	24		3838	27	70	
074-109	2024	0	0	******	1400	0	0	3.9	438	0	0	6.4	72	0	0	25.1
110-119	2958	3	10	******	2686	3	11	5.0	1060	0	0	8.3	210	1	48	30.7
120-129	2714	1	4	******	3112	2	6	6.1	1592	3	19	10.6	320	1	31	36.2
130-139	1788	0	0	******	3082	1	3	7.4	1956	4	20	13.5	526	0	0	43.7
140-149	898	0	0	******	1984	1	5	9.1	1732	3	17	17.1	608	3	49	51.6
150-159	454	0	0	******	1398	3	21	11.1	1598	5	31	21.8	570	5	88	61.3
160-169	218	0	0	******	804	0	0	13.6	1148	1	9	27.6	466	3	64	72.5
170-179	96	0	0	******	528	1	19	16.7	854	3	35	35.1	374	3	80	86.4
180-189	56	0	0	******	402	1	25	20.3	620	0	0	44.4	274	4	146	103.0
190-300	50	0	0	******	430	2	47	41.9	886	10	113	92.3	418	7	167	159.3
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.028	0.020	0.030	0.024	0.012	0.018
SE(B)	******	******	0.008	0.007	0.005	0.005	0.008	0.006
A	*******	*******	-9.414	-9.247	-9.403	-9.168	-6.156	-7.115

TABLE 8-2-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	896	21	14	9	24	16	10	1095	1127	1083	12	11	10	11	10	9
020-069	44	80	94	0	0	1	0	0	11	104	205	230	1	2	1	10	10	4
070-074	110	136	153	3	3	1	27	22	7	198	252	263	2	2	3	10	8	11
075-079	71	93	117	1	0	1	14	0	9	136	154	188	0	2	2	0	13	11
080-084	195	210	185	2	4	1	10	19	5	276	248	179	0	0	1	0	0	6
085-089	113	107	130	1	1	0	9	9	0	102	107	97	1	1	1	10	9	10
090-094	156	115	104	6	2	3	38	17	29	144	76	65	3	1	0	21	13	0
095-099	62	65	45	2	0	0	32	0	0	51	35	29	3	1	1	59	29	34
100-104	63	34	36	3	1	0	48	29	0	50	27	19	1	0	0	20	0	0
105-109	11	21	17	0	1	2	0	48	118	11	13	5	0	2	1	0	154	200
110-160	40	21	15	3	2	0	75	95	0	23	10	8	1	0	0	43	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	725	744	729	37	29	26	51	39	36	875	906	938	29	17	10	33	19	11
020-069	21	58	65	1	1	2	48	17	31	21	63	99	1	0	0	48	0	0
070-074	70	77	96	1	2	1	14	26	10	76	124	132	2	3	0	26	24	0
075-079	59	93	95	0	2	0	0	22	0	82	103	135	0	1	0	0	10	0
080-084	176	146	145	6	1	0	34	7	0	192	187	205	6	3	3	31	16	15
085-089	74	103	101	3	4	5	41	39	50	100	113	123	2	2	2	20	18	16
090-094	130	109	89	6	4	5	46	37	56	160	129	92	1	2	2	6	16	22
095-099	57	60	61	6	5	6	105	83	98	71	54	58	4	0	0	56	0	0
100-104	71	54	32	5	4	1	70	74	31	76	52	40	3	1	0	39	19	0
105-109	23	17	18	0	1	2	0	59	111	26	26	17	3	2	0	115	77	0
110-160	44	27	27	9	5	4	205	185	148	71	55	37	7	3	3	99	55	81
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	341	492	581	18	31	33	53	63	57	435	606	732	31	42	45	71	69	61
020-069	19	42	60	0	1	2	0	24	33	13	31	52	0	2	3	0	65	58
070-074	32	65	92	0	2	3	0	31	33	36	67	80	3	2	3	83	30	38
075-079	40	66	66	2	3	5	50	45	76	27	56	79	0	0	1	0	0	13
080-084	72	92	119	4	4	2	56	43	17	74	110	149	2	5	7	27	45	47
085-089	36	45	68	1	1	2	28	22	29	55	73	101	6	4	4	109	55	40
090-094	56	72	64	4	5	5	71	69	78	81	91	103	5	5	2	62	55	19
095-099	22	30	40	1	5	4	45	167	100	35	59	60	1	4	7	29	68	117
100-104	28	35	20	1	3	0	36	86	0	51	50	40	3	7	5	59	140	125
105-109	7	9	19	0	1	1	0	111	53	12	22	25	1	3	1	83	136	40
110-160	29	36	33	5	6	9	172	167	273	51	47	43	10	10	12	196	213	279
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.039	0.045	0.038
SE(B)	0.016	0.022	0.026
A	-7.107	-7.973	-7.829
WOMEN			
B	0.037	0.034	0.027
SE(B)	0.020	0.022	0.025
A	-7.625	-7.362	-6.788
AGE 45-54 AT EXAM			
MEN			
B	0.052	0.060	0.065
SE(B)	0.011	0.014	0.016
A	-7.696	-8.542	-9.019
WOMEN			
B	0.037	0.032	0.052
SE(B)	0.012	0.015	0.017
A	-6.765	-6.755	-9.137
AGE 55-64 AT EXAM			
MEN			
B	0.045	0.046	0.046
SE(B)	0.015	0.012	0.011
A	-7.005	-6.828	-6.873
WOMEN			
B	0.038	0.044	0.050
SE(B)	0.011	0.010	0.010
A	-6.213	-6.613	-7.249

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 8-2-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	2	2		12616	25	20		9044	32	35		2804	18	64	
020-069	728	0	0	******	768	1	13	10.8	714	2	28	6.5	338	2	59	51.1
070-074	1324	2	15	******	1536	4	26	13.1	1234	3	24	9.9	468	4	85	56.2
075-079	998	0	0	******	1290	1	8	15.1	952	1	11	13.8	300	1	33	59.5
080-084	2268	0	0	******	3030	2	7	17.1	2000	1	5	18.9	590	4	68	62.6
085-089	1240	0	0	******	1698	4	24	19.7	1002	2	20	26.4	300	1	33	66.4
090-094	1190	0	0	******	1808	5	28	22.4	1272	4	31	35.9	354	0	0	70.0
095-099	560	0	0	******	858	1	12	25.6	584	3	51	49.4	128	0	0	73.7
100-104	472	0	0	******	884	4	45	28.8	626	3	48	66.4	166	4	241	77.5
105-109	136	0	0	******	286	0	0	33.3	190	4	211	93.8	34	0	0	83.5
110-160	218	0	0	******	458	3	66	42.9	470	9	191	195.5	126	2	159	93.6
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	4	4		15826	14	9		11884	29	24		3838	27	70	
020-069	1914	1	5	******	1416	0	0	3.3	770	0	0	7.8	302	1	33	39.9
070-074	2416	0	0	******	2460	1	4	4.5	1408	3	21	10.8	462	3	65	47.9
075-079	1588	2	13	******	1790	1	6	5.6	1076	3	28	13.6	334	0	0	54.4
080-084	2472	0	0	******	3678	2	5	6.8	2558	2	8	16.7	878	7	80	60.6
085-089	1106	1	9	******	1910	3	16	8.5	1484	5	34	20.8	376	4	106	68.9
090-094	880	0	0	******	2020	1	5	10.5	1894	3	16	25.8	632	3	47	77.2
095-099	362	0	0	******	792	3	38	12.8	788	3	38	31.9	282	3	106	86.8
100-104	290	0	0	******	820	0	0	15.7	914	0	0	39.2	298	0	0	97.2
105-109	100	0	0	******	272	0	0	19.8	288	4	139	49.2	62	2	323	110.1
110-160	128	0	0	******	668	3	45	34.8	704	6	85	80.3	212	4	189	139.4
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.027	0.042	0.064	0.043	0.011	0.024
SE(B)	******	******	0.016	0.015	0.011	0.012	0.017	0.014
A	*******	*******	-7.855	-10.046	-10.833	-9.227	-5.276	-6.367

TABLE 8-3-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	896	21	14	9	24	16	10	1095	1127	1083	12	11	10	11	10	9
096-189	140	172	174	0	0	0	0	0	0	213	334	331	2	4	1	9	12	3
190-204	94	100	116	2	0	1	21	0	9	133	206	187	1	2	2	8	10	11
205-219	58	137	141	1	1	2	17	7	14	85	153	155	1	2	2	12	13	13
220-234	108	144	132	1	1	0	9	7	0	98	135	131	4	1	3	41	7	23
235-249	50	95	101	2	2	2	40	21	20	50	90	96	0	0	0	0	0	0
250-264	53	72	76	2	4	2	38	56	26	46	56	57	0	0	0	0	0	0
265-279	29	54	48	5	1	1	172	19	21	23	55	36	3	2	1	130	36	28
280-294	18	32	37	0	2	0	0	63	0	16	28	29	0	0	0	0	0	0
295-309	12	20	23	0	1	0	0	50	0	6	17	25	0	0	0	0	0	0
310-696	18	29	34	1	2	1	56	69	29	3	15	14	0	0	1	0	0	71
UNKNOWN	285	27	14	7	0	0				422	38	22	1	0	0			
AGE 45-54 AT EXAM																		
TOTAL	725	744	729	37	29	26	51	39	36	875	906	938	29	17	10	33	19	11
096-189	77	96	89	2	3	3	26	31	34	74	100	109	1	1	0	14	10	0
190-204	59	95	84	6	6	4	102	63	48	41	90	97	0	0	0	0	0	0
205-219	51	109	130	3	2	4	59	18	31	55	117	116	3	2	3	55	17	26
220-234	66	127	116	2	6	0	30	47	0	83	144	137	2	2	1	24	14	7
235-249	48	108	91	2	5	6	42	46	66	40	110	133	1	3	1	25	27	8
250-264	39	71	85	4	2	4	103	28	47	35	82	98	0	1	0	0	12	0
265-279	27	46	50	0	3	2	0	65	40	41	76	77	2	3	1	49	39	13
280-294	27	39	32	1	0	1	37	0	31	31	58	54	0	2	2	0	34	37
295-309	14	21	18	0	1	1	0	48	56	24	33	36	1	1	1	42	30	28
310-696	10	19	22	1	0	0	100	0	0	38	66	68	1	2	1	26	30	15
UNKNOWN	307	13	12	16	1	1				413	30	13	18	0	0			
AGE 55-64 AT EXAM																		
TOTAL	341	492	581	18	31	33	53	63	57	435	606	732	31	42	45	71	69	61
096-189	51	89	105	2	4	5	39	45	48	16	31	38	3	3	5	188	97	132
190-204	32	64	57	1	3	2	31	47	35	19	40	49	0	3	2	0	75	41
205-219	29	72	95	1	5	0	34	69	0	22	49	65	2	4	1	91	82	15
220-234	39	61	70	4	3	7	103	49	100	47	97	96	1	6	9	21	62	94
235-249	30	50	81	1	3	6	33	60	74	28	68	88	4	7	5	143	103	57
250-264	17	58	74	2	2	4	118	34	54	40	75	103	2	2	6	50	27	58
265-279	15	33	29	1	4	1	67	121	34	29	63	88	1	4	5	34	63	57
280-294	11	24	31	2	1	1	182	42	32	20	47	54	0	2	2	0	43	37
295-309	8	20	21	1	2	4	125	100	190	19	37	56	1	3	4	53	81	71
310-696	7	14	16	1	3	3	143	214	188	28	78	83	2	6	6	71	77	72
UNKNOWN	102	7	2	2	1	0				167	21	12	15	2	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.011	0.015	0.012
SE(B)	0.004	0.004	0.005
A	-6.141	-7.694	-7.566
WOMEN			
B	0.011	-0.002	0.006
SE(B)	0.008	0.008	0.007
A	-6.511	-4.168	-6.019
AGE 45-54 AT EXAM			
MEN			
B	-0.001	-0.003	0.000
SE(B)	0.005	0.005	0.005
A	-2.742	-2.449	-3.430
WOMEN			
B	0.003	0.009	0.007
SE(B)	0.006	0.005	0.005
A	-4.488	-6.143	-6.134
AGE 55-64 AT EXAM			
MEN			
B	0.013	0.009	0.010
SE(B)	0.006	0.004	0.004
A	-5.583	-4.892	-5.133
WOMEN			
B	-0.006	-0.001	-0.002
SE(B)	0.006	0.004	0.003
A	-1.311	-2.378	-2.234

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 8-3-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	2	2		12616	25	20		9044	32	35		2804	18	64	
096-189	1532	0	0	******	1380	4	29	12.9	1082	2	18	30.3	360	5	139	77.4
190-204	1002	0	0	******	1218	0	0	15.3	914	4	44	32.1	336	3	89	71.5
205-219	1206	1	8	******	1776	3	17	17.0	1136	4	35	33.3	366	1	27	68.4
220-234	1324	0	0	******	1838	4	22	18.8	1336	4	30	34.5	434	2	46	65.5
235-249	984	0	0	******	1570	2	13	20.9	1236	6	49	35.7	316	1	32	62.7
250-264	804	0	0	******	1426	2	14	23.0	1094	2	18	37.0	322	1	31	60.0
265-279	574	1	17	******	1018	4	39	25.6	776	6	77	38.3	248	0	0	57.4
280-294	412	0	0	******	692	4	58	28.4	518	2	39	39.7	210	1	48	54.9
295-309	254	0	0	******	414	0	0	31.5	326	0	0	41.1	90	2	222	52.5
310-696	358	0	0	******	562	2	36	43.8	358	1	28	44.4	104	2	192	48.7
UNKNOWN	684	0			722	0			268	1			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	4	4		15826	14	9		11884	29	24		3838	27	70	
096-189	2932	1	3	******	1498	1	7	5.9	476	2	42	28.2	106	2	189	80.5
190-204	1784	1	6	******	1452	0	0	6.7	608	1	16	27.4	156	1	64	76.8
205-219	1488	0	0	******	1798	2	11	7.2	914	3	33	26.9	272	3	110	74.9
220-234	1350	1	7	******	2198	3	14	7.8	1408	5	36	26.4	410	2	49	73.1
235-249	978	1	10	******	1940	1	5	8.4	1364	3	22	25.9	496	2	40	71.2
250-264	634	0	0	******	1650	0	0	9.0	1564	2	13	25.5	510	2	39	69.4
265-279	444	0	0	******	1394	0	0	9.7	1472	4	27	25.0	528	4	76	67.7
280-294	302	0	0	******	1030	1	10	10.5	1184	2	17	24.5	398	3	75	65.8
295-309	160	0	0	******	680	2	29	11.3	864	1	12	24.1	314	4	127	64.2
310-1124	182	0	0	******	1214	3	25	15.0	1592	6	38	23.0	600	3	50	60.6
UNKNOWN	1002	0			972	1			438	0			48	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.007	0.005	0.002	-0.001	-0.003	-0.002
SE(B)	******	******	0.004	0.003	0.004	0.004	0.006	0.005
A	*******	*******	-7.153	-7.605	-5.507	-4.958	-3.641	-3.812

TABLE 8-4-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	896	21	14	9	24	16	10	1095	1127	1083	12	11	10	11	10	9	
067-119	18	26	17	0	0	0	0	0	0	181	275	242	3	1	1	17	4	4	MEN
120-124	13	43	25	0	0	0	0	0	0	112	245	188	3	3	0	27	12	0	B 0.032 0.005 0.010
125-129	24	61	30	0	2	0	0	33	0	98	161	170	1	2	1	10	12	6	SE(B) 0.021 0.022 0.030
130-134	61	125	94	1	1	1	16	8	11	87	196	209	1	2	4	11	10	19	A -8.291 -4.773 -5.960
135-139	93	125	109	3	3	1	32	24	9	95	106	121	1	0	0	11	0	0	
140-144	104	149	135	4	3	1	38	20	7	47	44	71	1	1	2	21	23	28	WOMEN
145-149	69	107	193	2	2	3	29	19	16	5	20	28	0	1	1	0	50	36	B -0.003 0.025 0.058
150-154	84	103	111	0	1	2	0	10	18	8	15	14	0	0	0	0	0	0	SE(B) 0.027 0.028 0.031
155-159	44	58	99	2	1	1	45	17	10	2	8	6	0	0	0	0	0	0	A -3.816 -7.873-12.255
160-216	53	51	65	3	1	0	57	20	0	5	3	1	0	0	0	0	0	0	
UNKNOWN	302	34	18	6	0	0				455	54	33	2	1	1				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	725	744	729	37	29	26	51	39	36	875	906	938	29	17	10	33	19	11	
067-119	11	30	15	0	0	2	0	0	133	76	173	152	0	2	3	0	12	20	MEN
120-124	21	44	29	2	2	0	95	45	0	87	193	160	2	4	0	23	21	0	B -0.004 0.011 0.008
125-129	20	41	29	0	0	1	0	0	34	66	130	146	1	1	2	15	8	14	SE(B) 0.018 0.016 0.018
130-134	42	106	94	2	4	3	48	38	32	75	181	188	2	5	1	27	28	5	A -2.338 -4.733 -4.455
135-139	65	101	87	4	4	2	62	40	23	68	92	132	1	2	1	15	22	8	
140-144	78	124	137	6	6	5	77	48	36	33	49	63	1	0	0	30	0	0	WOMEN
145-149	50	102	125	4	6	4	80	59	32	16	24	48	1	1	1	63	42	21	B 0.051 0.018 0.008
150-154	46	88	83	0	2	2	0	23	24	11	13	19	1	1	1	91	77	53	SE(B) 0.032 0.024 0.028
155-159	31	44	62	2	2	2	65	45	32	3	5	8	0	0	1	0	0	125	A-10.582 -6.224 -5.584
160-216	35	44	53	1	2	4	29	45	75	1	3	4	0	0	0	0	0	0	
UNKNOWN	326	20	15	16	1	1				439	43	18	20	1	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	341	492	581	18	31	33	53	63	57	435	606	732	31	42	45	71	69	61	
067-119	22	30	24	1	0	1	45	0	42	43	115	98	2	4	6	47	35	61	MEN
120-124	12	24	25	0	3	2	0	125	80	47	106	114	2	7	4	43	66	35	B 0.059 0.030 0.027
125-129	12	34	33	0	2	1	0	59	30	40	92	106	2	9	7	50	98	66	SE(B) 0.022 0.016 0.016
130-134	34	76	53	1	3	1	29	39	19	50	131	179	4	5	12	80	38	67	A-11.201 -6.917 -6.683
135-139	33	75	83	1	5	6	30	67	72	38	59	86	2	5	4	53	85	47	
140-144	48	92	99	1	3	3	21	33	30	23	46	62	1	4	4	43	87	65	WOMEN
145-149	15	46	106	1	2	5	67	43	47	7	12	42	1	3	6	143	250	143	B 0.026 0.036 0.015
150-154	26	51	65	3	6	3	115	118	46	5	9	15	1	2	1	200	222	67	SE(B) 0.025 0.016 0.014
155-159	11	32	53	4	5	6	364	156	113	2	6	10	0	1	1	0	167	100	A -6.209 -7.285 -4.690
160-216	16	17	36	2	1	5	125	59	139	1	1	2	0	0	0	0	0	0	
UNKNOWN	112	15	4	4	1	0				179	29	18	16	2	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 8-4-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	2	2		12616	25	20		9044	32	35		2804	18	64	
067-119	138	0	0	******	148	1	68	15.3	226	0	0	6.0	50	0	0	53.3
120-124	206	0	0	******	268	0	0	16.4	194	0	0	9.0	26	1	385	55.0
125-129	282	0	0	******	294	1	34	17.2	246	1	41	11.1	52	0	0	56.9
130-134	694	0	0	******	848	2	24	18.1	674	2	30	14.6	126	1	79	58.5
135-139	896	1	11	******	1062	1	9	19.0	838	1	12	18.9	258	1	39	60.3
140-144	1312	1	8	******	1754	4	23	19.9	1388	2	14	23.9	370	2	54	62.1
145-149	1576	0	0	******	2132	3	14	20.8	1536	5	33	30.1	450	3	67	63.7
150-154	1296	0	0	******	1900	3	16	21.9	1370	5	36	38.8	562	5	89	65.8
155-159	1000	0	0	******	1544	4	26	22.9	1118	5	45	48.9	394	2	51	67.6
160-216	980	0	0	******	1872	6	32	25.0	1142	10	88	79.9	488	3	61	71.3
UNKNOWN	754	0			794	0			312	1			28	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	4	4		15826	14	9		11884	29	24		3838	27	70	
067-119	1966	1	5	******	1654	0	0	2.9	974	3	31	16.0	196	1	51	76.6
120-124	1586	0	0	******	1742	1	6	4.3	1072	2	19	19.1	240	2	83	73.0
125-129	1548	0	0	******	1966	1	5	5.2	1344	3	22	21.1	382	2	52	71.6
130-134	2040	1	5	******	2812	3	11	6.5	2358	6	25	23.4	682	5	73	70.1
135-139	1442	0	0	******	2548	0	0	8.0	1930	1	5	26.1	670	5	75	68.7
140-144	816	1	12	******	1802	3	17	9.8	1622	6	37	29.0	692	4	58	67.4
145-149	428	1	23	******	1242	1	8	11.9	1086	2	18	32.0	434	4	92	66.0
150-154	188	0	0	******	596	2	34	14.9	542	3	55	35.7	250	3	120	64.7
155-159	78	0	0	******	200	0	0	18.0	298	2	67	39.7	156	0	0	63.4
160-216	34	0	0	******	154	0	0	25.2	152	1	66	46.7	82	0	0	61.3
UNKNOWN	1130	0			1110	3			506	0			54	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.010	0.042	0.050	0.021	0.006	-0.004
SE(B)	******	******	0.018	0.026	0.015	0.017	0.020	0.017
A	*******	*******	-6.891	-12.172	-12.407	-8.162	-5.210	-3.700

TABLE 8-5-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	896	21	14	9	24	16	10	1095	1127	1083	12	11	10	11	10	9
062-159	253	237	128	3	1	1	12	4	8	343	444	216	5	6	1	15	14	5
160-179	83	141	75	2	2	0	24	14	0	104	193	127	4	1	0	38	5	0
180-199	100	156	113	4	2	2	40	13	18	92	151	132	0	2	1	0	13	8
200-219	45	133	125	3	0	0	67	0	0	59	150	186	1	1	2	17	7	11
220-239	34	64	123	0	2	1	0	31	8	39	73	148	0	0	3	0	0	20
240-259	30	36	105	0	1	2	0	28	19	18	32	117	0	0	2	0	0	17
260-279	16	39	77	1	5	1	63	128	13	7	22	59	1	1	0	143	45	0
280-299	3	23	61	0	0	1	0	0	16	3	12	43	0	0	0	0	0	0
300-319	4	13	32	0	0	0	0	0	0	1	4	16	0	0	0	0	0	0
320-968	7	12	39	1	1	1	143	83	26	0	6	9	0	0	1	****	0	111
UNKNOWN	290	28	18	7	0	0				429	40	30	1	0	0			
AGE 45-54 AT EXAM																		
TOTAL	725	744	729	37	29	26	51	39	36	875	906	938	29	17	10	33	19	11
062-159	157	210	111	9	4	4	57	19	36	157	202	132	4	4	1	25	20	8
160-179	65	118	81	3	7	1	46	59	12	64	113	89	2	2	0	31	18	0
180-199	47	130	89	1	5	2	21	38	22	71	141	86	2	3	0	28	21	0
200-219	49	117	107	3	4	6	61	34	56	72	170	172	0	3	1	0	18	6
220-239	20	64	90	2	4	4	100	63	44	32	100	94	1	1	2	31	10	21
240-259	27	41	78	1	2	1	37	49	13	19	64	114	0	3	2	0	47	18
260-279	24	28	58	0	1	2	0	36	34	13	52	93	1	0	3	77	0	32
280-299	10	12	50	1	1	1	100	83	20	10	18	59	1	1	0	100	56	0
300-319	4	5	24	0	0	3	0	0	125	5	6	31	0	0	0	0	0	0
320-968	4	4	26	0	0	1	0	0	38	11	7	43	0	0	1	0	0	23
UNKNOWN	318	15	15	17	1	1				421	33	25	18	0	0			
AGE 55-64 AT EXAM																		
TOTAL	341	492	581	18	31	33	53	63	57	435	606	732	31	42	45	71	69	61
062-159	89	123	83	4	5	2	45	41	24	72	79	59	10	6	7	139	76	119
160-179	48	82	59	5	4	4	104	49	68	37	78	47	1	8	4	27	103	85
180-199	26	74	67	0	3	3	0	41	45	37	107	86	0	7	6	0	65	70
200-219	30	86	84	1	9	6	33	105	71	40	124	113	1	5	7	25	40	62
220-239	13	53	88	1	3	7	77	57	80	29	78	99	2	8	9	69	103	91
240-259	9	29	81	2	3	3	222	103	37	14	44	111	1	0	2	71	0	18
260-279	13	19	47	2	3	4	154	158	85	15	31	63	0	1	5	0	32	79
280-299	3	12	22	0	0	0	0	0	0	5	23	66	0	2	2	0	87	30
300-319	0	2	28	0	0	3	****	0	107	8	9	41	0	1	1	0	111	24
320-968	3	3	20	0	0	1	0	0	50	6	9	32	1	2	2	167	222	63
UNKNOWN	107	9	2	3	1	0				172	24	15	15	2	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.005	0.010	0.008
SE(B)	0.004	0.003	0.005
A	-4.527	-6.248	-6.384
WOMEN			
B	0.003	-0.001	0.011
SE(B)	0.007	0.007	0.006
A	-4.623	-4.400	-7.120
AGE 45-54 AT EXAM			
MEN			
B	-0.004	0.002	0.002
SE(B)	0.005	0.003	0.004
A	-2.339	-3.650	-3.726
WOMEN			
B	-0.001	0.001	0.007
SE(B)	0.006	0.005	0.006
A	-3.598	-4.065	-6.229
AGE 55-64 AT EXAM			
MEN			
B	0.004	0.005	0.002
SE(B)	0.004	0.004	0.003
A	-3.386	-3.710	-3.308
WOMEN			
B	-0.010	0.000	-0.006
SE(B)	0.006	0.004	0.003
A	-0.823	-2.624	-1.256

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 8-5-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	2	2		12616	25	20		9044	32	35		2804	18	64	
062-159	1332	0	0	******	1152	1	9	13.3	732	2	27	24.3	62	0	0	46.6
160-179	666	0	0	******	648	2	31	15.0	484	0	0	27.1	68	1	147	50.4
180-199	948	2	21	******	832	1	12	16.1	614	1	16	28.9	60	1	167	52.9
200-219	908	0	0	******	1034	3	29	17.3	794	4	50	30.9	212	2	94	55.9
220-239	886	0	0	******	1242	3	24	18.6	950	2	21	33.0	306	4	131	58.9
240-259	938	0	0	******	1648	5	30	20.0	1334	6	45	35.1	550	3	55	62.0
260-279	956	0	0	******	1622	1	6	21.4	1350	8	59	37.5	530	1	19	65.3
280-299	648	0	0	******	1414	2	14	22.9	1016	1	10	39.9	416	0	0	68.3
300-319	510	0	0	******	986	2	20	24.6	714	1	14	42.5	322	0	0	72.0
320-968	618	0	0	******	1258	4	32	28.9	764	6	79	48.9	260	6	231	78.3
UNKNOWN	724	0			780	1			292	1			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	4	4		15826	14	9		11884	29	24		3838	27	70	
062-159	2244	0	0	******	1324	2	15	9.2	604	2	33	21.5	30	1	333	120.5
160-179	986	0	0	******	764	1	13	9.1	458	0	0	22.4	48	0	0	107.1
180-199	1106	1	9	******	874	1	11	9.0	616	1	16	23.0	58	2	345	99.0
200-219	1296	0	0	******	1572	1	6	8.9	970	2	21	23.7	168	0	0	90.9
220-239	1242	0	0	******	1554	1	6	8.9	970	2	21	24.3	216	3	139	83.7
240-259	1186	2	17	******	1914	1	5	8.8	1272	5	39	24.9	388	2	52	78.0
260-279	890	1	11	******	2020	0	0	8.7	1606	4	25	25.5	644	4	62	72.5
280-299	612	0	0	******	1674	2	12	8.7	1488	4	27	26.2	640	5	78	67.3
300-319	364	0	0	******	1360	1	7	8.6	1444	4	28	26.8	710	4	56	62.8
320-968	264	0	0	******	1698	3	18	8.5	1976	5	25	28.3	874	5	57	54.5
UNKNOWN	1066	0			1072	1			480	0			62	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.004	-0.000	0.003	0.001	0.003	-0.004
SE(B)	******	******	0.003	0.004	0.003	0.003	0.005	0.004
A	*******	*******	-6.402	-6.249	-5.758	-5.621	-5.028	-3.176

TABLE 8-6-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	896	21	14	9	24	16	10	1095	1127	1083	12	11	10	11	10	9	
029-059	16	21	17	2	0	0	125	0	0	12	18	20	0	0	0	0	0	0	MEN
060-069	153	138	147	2	4	0	13	29	0	149	176	171	6	1	1	40	6	6	B 0.023 -0.017 0.008
070-079	215	316	326	3	5	3	14	16	9	287	397	391	1	4	5	3	10	13	SE(B) 0.009 0.022 0.011
080-089	182	218	221	2	4	2	11	18	9	237	303	305	2	0	1	8	0	3	A -5.554 -2.766 -5.213
090-099	71	105	112	5	0	4	70	0	36	92	128	111	0	1	1	0	8	9	
100-109	30	39	42	2	1	0	67	26	0	34	45	33	1	2	1	29	44	30	WOMEN
110-119	17	13	11	1	0	0	59	0	0	14	17	15	1	1	0	71	59	0	B -0.013 0.034 0.001
120-129	7	2	6	0	0	0	0	0	0	5	7	5	0	1	0	0	143	0	SE(B) 0.025 0.015 0.020
130-139	5	5	3	0	0	0	0	0	0	2	1	4	0	0	0	0	0	0	A -3.268 -7.556 -4.866
140-524	4	5	4	1	0	0	250	0	0	4	5	7	0	0	0	0	0	0	
UNKNOWN	165	20	7	3	0	0				259	30	21	1	1	1				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	725	744	729	37	29	26	51	39	36	875	906	938	29	17	10	33	19	11	
029-059	11	14	12	1	0	2	91	0	167	5	10	14	0	1	0	0	100	0	MEN
060-069	102	98	102	4	3	3	39	31	29	86	123	121	3	1	1	35	8	8	B 0.014 0.016 0.009
070-079	155	251	227	6	6	5	39	24	22	171	261	331	5	5	4	29	19	12	SE(B) 0.004 0.005 0.005
080-089	130	183	210	6	9	8	46	49	38	195	281	265	2	6	3	10	21	11	A -4.330 -4.638 -4.092
090-099	79	102	90	1	3	3	13	29	33	84	114	115	2	2	1	24	18	9	
100-109	20	36	43	0	1	1	0	28	23	46	49	37	1	1	1	22	20	27	WOMEN
110-119	13	24	14	2	1	1	154	42	71	14	23	21	0	0	0	0	0	0	B 0.011 -0.011 -0.008
120-129	3	7	6	0	1	0	0	143	0	6	3	4	0	0	0	0	0	0	SE(B) 0.008 0.018 0.021
130-139	6	2	2	1	0	0	167	0	0	2	4	4	1	0	0	500	0	0	A -4.577 -3.116 -3.860
140-524	14	16	15	3	5	3	214	313	200	9	13	15	2	0	0	222	0	0	
UNKNOWN	192	11	8	13	0	0				257	25	11	13	1	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	341	492	581	18	31	33	53	63	57	435	606	732	31	42	45	71	69	61	
029-059	8	9	7	1	2	0	125	222	0	5	15	12	0	0	1	0	0	83	MEN
060-069	40	68	79	3	3	5	75	44	63	35	59	62	1	4	5	29	68	81	B -0.019 -0.003 0.004
070-079	88	148	170	6	6	13	68	41	76	95	164	209	3	9	9	32	55	43	SE(B) 0.018 0.008 0.005
080-089	69	128	146	3	10	6	43	78	41	90	169	228	6	5	15	67	30	66	A -1.278 -2.477 -3.200
090-099	38	58	91	1	4	2	26	69	22	55	97	97	5	13	7	91	134	72	
100-109	12	23	31	1	4	2	83	174	65	24	46	56	1	2	1	42	43	18	WOMEN
110-119	8	21	18	1	0	0	125	0	0	4	9	18	0	1	2	0	111	111	B 0.005 0.009 0.005
120-129	3	8	15	0	0	3	0	0	200	6	10	17	0	1	1	0	100	59	SE(B) 0.005 0.003 0.004
130-139	2	2	4	0	0	1	0	0	250	4	1	3	0	1	1	0	1000	333	A -3.298 -3.400 -3.194
140-524	10	15	17	0	1	1	0	67	59	14	18	21	2	4	3	143	222	143	
UNKNOWN	63	12	3	2	1	0				103	18	9	13	2	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 8-6-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	2	2		12616	25	20		9044	32	35		2804	18	64	
029-059	298	0	0	******	350	1	29	15.5	252	1	40	32.0	70	2	286	79.9
060-069	1740	0	0	******	2272	1	4	16.9	1438	6	42	33.4	482	3	62	73.7
070-079	2980	0	0	******	4078	11	27	18.4	2774	8	29	34.6	794	3	38	69.2
080-089	2118	0	0	******	2882	5	17	20.1	2182	10	46	35.9	640	3	47	64.6
090-099	924	2	22	******	1370	2	15	21.9	1080	3	28	37.3	408	4	98	60.2
100-109	356	0	0	******	550	0	0	24.0	448	2	45	38.8	136	2	147	56.4
110-119	164	0	0	******	260	1	38	26.4	240	0	0	40.4	70	1	143	52.3
120-129	54	0	0	******	104	2	192	28.6	136	0	0	42.1	42	0	0	48.6
130-139	38	0	0	******	58	0	0	31.5	56	0	0	43.9	34	0	0	45.9
140-524	60	0	0	******	240	2	83	76.5	240	2	83	59.3	104	0	0	29.5
UNKNOWN	402	0			452	0			198	0			24	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	4	4		15826	14	9		11884	29	24		3838	27	70	
029-059	262	0	0	******	308	0	0	8.3	242	0	0	18.7	64	0	0	68.4
060-069	1876	0	0	******	2718	3	11	8.1	1518	5	33	20.3	454	6	132	68.4
070-079	3918	3	8	******	5272	2	4	8.0	3718	4	11	22.0	1214	7	58	68.5
080-089	2916	0	0	******	3964	4	10	7.9	3204	12	37	23.8	990	7	71	68.5
090-099	1014	1	10	******	1638	2	12	7.8	1460	3	21	25.9	518	3	58	68.5
100-109	336	0	0	******	640	1	16	7.6	640	0	0	28.2	248	1	40	68.5
110-119	140	0	0	******	300	0	0	7.5	262	2	76	30.7	82	0	0	68.5
120-129	52	0	0	******	104	0	0	7.4	196	0	0	33.3	96	1	104	68.5
130-139	20	0	0	******	40	0	0	7.3	62	0	0	36.4	32	0	0	68.6
140-524	58	0	0	******	172	0	0	6.5	284	3	106	84.3	100	1	100	68.7
UNKNOWN	664	0			670	2			298	0			40	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.009	-0.002	0.004	0.009	-0.007	0.000
SE(B)	******	******	0.004	0.016	0.005	0.003	0.012	0.007
A	*******	*******	-6.285	-6.315	-5.262	-6.057	-3.733	-4.279

TABLE 8-7-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: URIC ACID (MG/LITER)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	896	21	14	9	24	16	10	1095	1127	1083	12	11	10	11	10	9
005-029	30	15	22	1	0	1	33	0	45	188	170	170	3	0	3	16	0	18
030-034	36	41	29	1	2	0	28	49	0	120	208	255	1	3	0	8	14	0
035-039	77	53	63	2	0	2	26	0	32	124	273	267	2	2	2	16	7	7
040-044	77	138	151	3	1	0	39	7	0	112	219	209	0	0	3	0	0	14
045-049	90	158	183	1	3	4	11	19	22	66	117	88	3	3	1	45	26	11
050-054	98	153	175	0	2	0	0	13	0	22	56	44	0	1	1	0	18	23
055-059	74	121	139	2	1	0	27	8	0	23	28	20	1	0	0	43	0	0
060-064	43	87	67	1	3	2	23	34	30	6	9	3	0	1	0	0	111	0
065-069	29	53	29	2	2	0	69	38	0	4	4	4	1	1	0	250	250	0
070-104	24	35	24	1	0	0	42	0	0	5	4	1	0	0	0	0	0	0
UNKNOWN	287	28	14	7	0	0				425	39	22	1	0	0			
AGE 45-54 AT EXAM																		
TOTAL	725	744	729	37	29	26	51	39	36	875	906	938	29	17	10	33	19	11
005-029	23	18	9	1	1	1	43	56	111	87	101	103	1	1	1	11	10	10
030-034	27	23	25	0	1	0	0	43	0	73	114	161	3	5	1	41	44	6
035-039	46	66	49	4	3	4	87	45	82	79	175	201	2	5	3	25	29	15
040-044	49	102	121	3	5	5	61	49	41	71	177	185	1	3	3	14	17	16
045-049	75	125	152	4	6	2	53	48	13	75	119	132	1	2	0	13	17	0
050-054	59	117	139	1	2	5	17	17	36	36	86	85	2	1	1	56	12	12
055-059	56	110	93	4	5	2	71	45	22	15	60	41	1	0	0	67	0	0
060-064	36	78	78	2	2	3	56	26	38	14	26	10	0	0	1	0	0	100
065-069	22	47	30	1	2	2	45	43	67	7	8	4	0	0	0	0	0	0
070-104	24	45	20	1	1	1	42	22	50	3	7	2	0	0	0	0	0	0
UNKNOWN	308	13	13	16	1	1				415	33	14	18	0	0			
AGE 55-64 AT EXAM																		
TOTAL	341	492	581	18	31	33	53	63	57	435	606	732	31	42	45	71	69	61
005-029	9	8	5	2	1	1	222	125	200	26	60	53	1	4	2	38	67	38
030-034	18	21	15	0	1	0	0	48	0	38	70	98	2	4	2	53	57	20
035-039	26	46	57	2	4	4	77	87	70	49	103	136	2	6	11	41	58	81
040-044	38	61	91	1	5	3	26	82	33	60	119	174	4	7	13	67	59	75
045-049	39	84	116	4	7	8	103	83	69	38	101	123	2	8	6	53	79	49
050-054	37	84	116	4	3	5	108	36	43	27	61	65	2	8	4	74	131	62
055-059	33	71	92	2	3	7	61	42	76	16	37	37	1	1	3	63	27	81
060-064	17	59	47	1	4	5	59	68	106	4	20	17	0	1	1	0	50	59
065-069	12	29	26	0	1	0	0	34	0	4	8	11	0	0	3	0	0	273
070-104	10	21	13	0	1	0	0	48	0	4	6	6	1	1	0	250	167	0
UNKNOWN	102	8	3	2	1	0				169	21	12	16	2	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.004	0.013	-0.041
SE(B)	0.021	0.024	0.035
A	-3.890	-4.763	-2.638
WOMEN			
B	0.036	0.063	0.008
SE(B)	0.025	0.026	0.039
A	-5.481	-7.151	-4.949
AGE 45-54 AT EXAM			
MEN			
B	-0.003	-0.019	-0.008
SE(B)	0.018	0.017	0.021
A	-2.793	-2.288	-2.919
WOMEN			
B	0.006	-0.039	0.014
SE(B)	0.027	0.026	0.034
A	-3.946	-2.381	-5.075
AGE 55-64 AT EXAM			
MEN			
B	-0.015	-0.021	0.002
SE(B)	0.022	0.017	0.019
A	-1.925	-1.669	-2.913
WOMEN			
B	0.030	0.011	0.022
SE(B)	0.024	0.015	0.016
A	-4.109	-3.064	-3.634

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 8-7-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: URIC ACID (MG/LITER)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	2	2		12616	25	20		9044	32	35		2804	18	64	
005-029	190	1	53	******	184	0	0	24.1	88	0	0	34.4	40	0	0	53.1
030-034	346	0	0	******	368	0	0	23.2	328	0	0	34.7	112	1	89	55.9
035-039	642	0	0	******	998	5	50	22.6	792	3	38	34.9	244	1	41	57.9
040-044	1408	0	0	******	1812	6	33	22.0	1422	7	49	35.1	516	3	58	60.7
045-049	1652	0	0	******	2426	1	4	21.5	1876	7	37	35.3	514	4	78	63.3
050-054	1588	0	0	******	2334	6	26	20.9	1542	5	32	35.5	472	2	42	65.7
055-059	1226	1	8	******	1688	2	12	20.4	1274	3	24	35.7	444	4	90	68.6
060-064	712	0	0	******	1044	3	29	19.8	814	5	61	35.9	240	2	83	71.4
065-069	406	0	0	******	532	0	0	19.3	364	1	27	36.1	118	1	85	74.3
070-104	266	0	0	******	458	2	44	18.3	258	0	0	36.5	78	0	0	80.3
UNKNOWN	698	0			772	0			286	1			26	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	4	4		15826	14	9		11884	29	24		3838	27	70	
005-029	1820	2	11	******	2144	1	5	2.5	1030	0	0	18.4	260	2	77	46.6
030-034	2294	1	4	******	2690	0	0	4.0	1598	4	25	20.9	462	3	65	53.5
035-039	2484	1	4	******	3412	2	6	5.8	2298	8	35	22.9	758	5	66	59.8
040-044	2008	0	0	******	3148	2	6	8.6	2696	5	19	25.3	848	3	35	67.0
045-049	888	0	0	******	1682	1	6	12.6	1852	7	38	28.0	712	4	56	75.2
050-054	382	0	0	******	958	5	52	18.6	1028	2	19	30.8	382	6	157	84.6
055-059	224	0	0	******	430	2	47	27.1	484	2	41	33.9	220	1	45	93.0
060-064	66	0	0	******	206	0	0	39.0	234	0	0	37.1	60	1	167	103.9
065-069	32	0	0	******	96	0	0	59.1	134	1	75	41.1	36	0	0	116.4
070-104	26	0	0	******	28	0	0	92.9	64	0	0	47.7	30	1	333	146.8
UNKNOWN	1032	0			1032	1			466	0			70	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.005	0.079	0.001	0.020	0.009	0.023
SE(B)	******	******	0.020	0.026	0.018	0.019	0.024	0.020
A	*******	*******	-5.191	-9.658	-4.999	-6.116	-4.766	-5.282

TABLE 8-8-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	896	21	14	9	24	16	10	1095	1127	1083	12	11	10	11	10	9
052-084	98	84	72	2	2	1	20	24	14	196	196	174	2	2	1	10	10	6
085-089	78	77	83	1	0	0	13	0	0	129	150	159	1	2	1	8	13	6
090-094	105	114	94	2	0	0	19	0	0	153	179	166	1	0	2	7	0	12
095-099	122	137	142	2	1	1	16	7	7	153	155	142	3	2	1	20	13	7
100-104	108	104	119	4	3	3	37	29	25	120	110	130	0	0	0	0	0	0
105-109	112	105	117	3	4	2	27	38	17	96	92	84	1	0	0	10	0	0
110-114	88	100	107	5	3	1	57	30	9	64	60	60	1	1	1	16	17	17
115-119	58	63	58	2	0	1	34	0	17	45	57	45	0	1	1	0	18	22
120-124	40	42	43	0	0	0	0	0	0	29	39	37	0	1	0	0	26	0
125-226	51	51	56	0	1	0	0	20	0	99	76	76	3	2	3	30	26	39
UNKNOWN	5	5	5	0	0	0				11	13	10	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	725	744	729	37	29	26	51	39	36	875	906	938	29	17	10	33	19	11
052-084	57	65	63	5	2	1	88	31	16	69	82	93	4	3	0	58	37	0
085-089	50	50	52	3	2	1	60	40	19	55	74	89	1	1	0	18	14	0
090-094	102	84	82	0	3	5	0	36	61	82	89	109	4	1	2	49	11	18
095-099	97	118	93	1	4	2	10	34	22	123	120	141	4	4	4	33	33	28
100-104	111	108	116	10	4	4	90	37	34	126	128	121	4	3	0	32	23	0
105-109	119	106	109	7	3	3	59	28	28	101	102	100	1	0	2	10	0	20
110-114	68	91	85	1	5	4	15	55	47	80	83	80	3	4	1	38	48	13
115-119	52	54	61	4	3	4	77	56	66	62	68	59	1	0	0	16	0	0
120-124	22	29	26	1	1	0	45	34	0	50	46	35	1	0	0	20	0	0
125-226	42	35	39	5	2	2	119	57	51	122	110	108	6	1	1	49	9	9
UNKNOWN	5	4	3	0	0	0				5	4	3	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	341	492	581	18	31	33	53	63	57	435	606	732	31	42	45	71	69	61
052-084	47	53	49	1	5	2	21	94	41	29	39	50	0	1	4	0	26	80
085-089	23	34	44	2	0	3	87	0	68	24	37	46	3	0	3	125	0	65
090-094	30	47	61	2	4	2	67	85	33	39	56	62	1	6	5	26	107	81
095-099	54	82	89	3	4	5	56	49	56	47	72	100	4	7	3	85	97	30
100-104	53	70	90	3	3	4	57	43	44	51	83	102	2	1	3	39	12	29
105-109	34	63	84	2	3	5	59	48	60	39	57	85	1	0	3	26	0	35
110-114	39	57	75	1	5	2	26	88	27	47	64	57	2	4	2	43	63	35
115-119	22	41	37	2	3	4	91	73	108	43	44	63	3	3	6	70	68	95
120-124	20	23	25	0	3	3	0	130	120	29	50	46	4	6	4	138	120	87
125-226	15	19	26	2	1	3	133	53	115	85	103	118	11	14	12	129	136	102
UNKNOWN	4	3	1	0	0	0				2	1	3	0	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.002	0.005	-0.001
SE(B)	0.016	0.019	0.024
A	-3.913	-4.672	-4.487
WOMEN			
B	0.012	0.018	0.025
SE(B)	0.014	0.015	0.014
A	-5.682	-6.423	-7.207
AGE 45-54 AT EXAM			
MEN			
B	0.017	0.014	0.013
SE(B)	0.012	0.014	0.015
A	-4.717	-4.613	-4.652
WOMEN			
B	0.010	-0.021	-0.006
SE(B)	0.009	0.016	0.019
A	-4.406	-1.815	-3.869
AGE 55-64 AT EXAM			
MEN			
B	0.017	0.011	0.021
SE(B)	0.016	0.013	0.013
A	-4.623	-3.787	-4.984
WOMEN			
B	0.020	0.022	0.017
SE(B)	0.008	0.007	0.007
A	-4.820	-5.084	-4.615

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 8-8-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	2	2		12616	25	20		9044	32	35		2804	18	64	
052-084	754	2	27	******	980	3	31	20.5	766	2	26	22.3	326	5	153	87.0
085-089	740	0	0	******	934	0	0	20.3	606	1	17	26.0	228	1	44	76.8
090-094	998	0	0	******	1366	1	7	20.2	938	3	32	28.6	282	1	35	71.7
095-099	1440	0	0	******	1776	4	23	20.1	1406	6	43	31.3	410	0	0	66.9
100-104	1224	0	0	******	1904	4	21	20.0	1500	4	27	34.3	396	2	51	62.8
105-109	1190	0	0	******	1832	5	27	19.8	1312	2	15	37.5	390	5	128	59.0
110-114	1046	0	0	******	1448	4	28	19.7	1006	4	40	41.1	348	1	29	55.0
115-119	650	0	0	******	920	3	33	19.6	652	5	77	45.0	168	2	119	51.9
120-124	438	0	0	******	592	1	17	19.5	464	2	43	49.3	100	0	0	48.1
125-226	602	0	0	******	798	0	0	19.3	362	3	83	61.4	142	1	70	42.0
UNKNOWN	52	0			66	0			32	0			14	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	4	4		15826	14	9		11884	29	24		3838	27	70	
052-084	1916	0	0	******	1698	1	6	4.4	924	2	22	18.4	402	4	100	60.2
085-089	1534	1	7	******	1688	0	0	5.4	900	2	22	19.9	234	2	85	63.1
090-094	1732	1	6	******	1930	2	10	6.0	1158	3	26	20.9	350	2	57	64.9
095-099	1582	0	0	******	2324	2	9	6.8	1622	5	31	21.9	472	1	21	66.7
100-104	1226	0	0	******	1974	3	15	7.7	1530	4	26	23.0	474	1	21	68.5
105-109	842	1	12	******	1610	0	0	8.7	1336	3	22	24.1	454	2	44	70.4
110-114	634	0	0	******	1226	2	16	9.7	1158	1	9	25.3	326	3	92	72.4
115-119	502	1	20	******	910	0	0	11.0	848	1	12	26.6	292	4	137	74.4
120-124	326	0	0	******	630	0	0	12.4	632	3	47	27.9	218	4	183	76.4
125-226	850	0	0	******	1734	4	23	21.4	1732	5	29	33.8	606	4	66	83.3
UNKNOWN	112	0			102	0			44	0			10	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.001	0.024	0.019	0.010	-0.014	0.006
SE(B)	******	******	0.015	0.010	0.013	0.009	0.017	0.010
A	*******	*******	-5.403	-8.931	-6.875	-6.376	-2.980	-4.846

TABLE 8-9-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	896	21	14	9	24	16	10	1095	1127	1083	12	11	10	11	10	9
05-14	1	0	1	0	0	0	0	****	0	9	12	7	0	0	0	0	0	0
15-19	1	5	3	0	0	0	0	0	0	62	46	28	1	1	0	16	22	0
20-24	12	13	10	0	0	0	0	0	0	234	190	191	4	0	1	17	0	5
25-29	43	45	30	1	1	0	23	22	0	415	477	411	5	7	8	12	15	19
30-34	157	128	135	8	3	4	51	23	30	285	310	332	1	1	0	4	3	0
35-39	250	256	249	7	5	3	28	20	12	70	81	96	1	2	1	14	25	10
40-44	237	268	256	4	5	2	17	19	8	10	7	15	0	0	0	0	0	0
45-49	116	120	146	1	0	0	9	0	0	2	2	1	0	0	0	0	0	0
50-54	33	38	56	0	0	0	0	0	0	1	0	0	0	0	0	0	****	****
55-61	5	7	9	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
UNKNOWN	10	2	1	0	0	0				7	2	2	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	725	744	729	37	29	26	51	39	36	875	906	938	29	17	10	33	19	11
05-14	1	1	0	0	0	0	0	0	****	20	29	21	2	3	0	100	103	0
15-19	3	5	5	0	0	0	0	0	0	105	120	93	6	1	0	57	8	0
20-24	25	17	18	2	0	0	80	0	0	330	304	310	13	4	5	39	13	16
25-29	76	73	86	4	2	2	53	27	23	274	313	338	5	5	3	18	16	9
30-34	172	202	195	10	9	13	58	45	67	124	123	152	3	4	2	24	33	13
35-39	226	231	211	12	10	6	53	43	28	16	15	22	0	0	0	0	0	0
40-44	148	158	151	7	8	4	47	51	26	2	1	2	0	0	0	0	0	0
45-49	54	44	49	2	0	1	37	0	20	0	0	0	0	0	0	****	****	****
50-54	15	11	11	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
55-61	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
UNKNOWN	3	0	1	0	0	0				4	1	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	341	492	581	18	31	33	53	63	57	435	606	732	31	42	45	71	69	61
05-14	1	3	4	0	0	0	0	0	0	26	47	51	2	3	3	77	64	59
15-19	1	13	6	0	2	0	0	154	0	83	137	154	4	11	11	48	80	71
20-24	19	35	42	2	3	5	105	86	119	207	255	312	16	21	18	77	82	58
25-29	70	87	110	4	7	6	57	80	55	85	140	168	6	5	10	71	36	60
30-34	106	142	170	3	6	12	28	42	71	24	24	41	2	2	3	83	83	73
35-39	94	145	170	9	9	7	96	62	41	4	2	5	0	0	0	0	0	0
40-44	35	50	61	0	2	3	0	40	49	0	0	0	0	0	0	****	****	****
45-49	8	13	12	0	2	0	0	154	0	0	0	0	0	0	0	****	****	****
50-54	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
55-61	0	0	0	0	0	0	****	****	****	0	0	0	0	0	0	****	****	****
UNKNOWN	6	3	2	0	0	0				6	1	1	1	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	-0.076	-0.073	-0.080
SE(B)	0.034	0.039	0.048
A	-0.843	-1.391	-1.568
WOMEN			
B	-0.050	-0.015	-0.027
SE(B)	0.055	0.061	0.063
A	-3.174	-4.216	-3.927
AGE 45-54 AT EXAM			
MEN			
B	-0.033	0.003	-0.034
SE(B)	0.025	0.030	0.031
A	-1.759	-3.317	-2.101
WOMEN			
B	-0.084	-0.022	0.034
SE(B)	0.038	0.047	0.064
A	-1.398	-3.436	-5.383
AGE 55-64 AT EXAM			
MEN			
B	-0.030	-0.017	-0.040
SE(B)	0.042	0.028	0.028
A	-1.874	-2.130	-1.514
WOMEN			
B	0.017	-0.030	-0.008
SE(B)	0.039	0.031	0.030
A	-2.962	-1.967	-2.560

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 8-9-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	2	2		12616	25	20		9044	32	35		2804	18	64	
05-14	6	0	0	******	10	0	0	59.2	24	0	0	55.3	12	0	0	103.9
15-19	28	0	0	******	72	0	0	44.1	116	0	0	49.2	90	2	222	92.3
20-24	94	0	0	******	314	0	0	35.3	522	2	38	44.6	314	2	64	80.3
25-29	344	1	29	******	1136	3	26	28.8	1660	8	48	40.2	696	4	57	70.4
30-34	1360	1	7	******	2852	8	28	23.5	2568	9	35	36.4	970	6	62	61.5
35-39	2484	0	0	******	3854	9	23	19.0	2548	10	39	32.9	514	3	58	53.7
40-44	2640	0	0	******	2878	5	17	15.5	1186	2	17	29.8	160	1	63	47.2
45-49	1410	0	0	******	1124	0	0	12.6	302	1	33	26.9	30	0	0	41.0
50-54	612	0	0	******	308	0	0	10.1	80	0	0	24.1	4	0	0	36.7
55-61	130	0	0	******	60	0	0	8.2	10	0	0	22.3	2	0	0	31.9
UNKNOWN	26	0			8	0			28	0			12	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	4	4		15826	14	9		11884	29	24		3838	27	70	
05-14	56	0	0	******	212	0	0	24.0	520	5	96	53.9	414	4	97	81.8
15-19	360	1	28	******	1216	2	16	15.7	2200	3	14	34.0	1130	6	53	74.0
20-24	1840	0	0	******	4582	8	17	11.0	5038	13	26	24.3	1580	13	82	68.4
25-29	4404	3	7	******	6016	3	5	7.7	3200	4	13	17.0	614	4	65	62.9
30-34	3324	0	0	******	3152	0	0	5.4	804	4	50	12.0	96	0	0	57.8
35-39	1076	0	0	******	568	1	18	3.7	102	0	0	8.4	4	0	0	54.0
40-44	144	0	0	******	56	0	0	2.5	2	0	0	5.7	0	0	*****	******
45-49	16	0	0	******	8	0	0	1.7	2	0	0	3.6	0	0	*****	******
50-54	2	0	0	******	0	0	*****	******	0	0	*****	******	0	0	*****	******
55-61	2	0	0	******	0	0	*****	******	0	0	*****	******	0	0	*****	******
UNKNOWN	32	0			16	0			16	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.043	-0.077	-0.021	-0.076	-0.028	-0.018
SE(B)	******	******	0.030	0.052	0.027	0.037	0.039	0.040
A	*******	*******	-3.968	-4.417	-4.238	-3.670	-3.483	-3.885

TABLE 8-10-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	896	21	14	9	24	16	10	1095	1127	1083	12	11	10	11	10	9	
NONE	0	120	118	0	4	2	****	33	17	0	331	310	0	3	3	****	9	10	MEN
000-009	0	255	274	0	1	1	****	4	4	0	448	442	0	4	4	****	9	9	B******* 0.008 0.006
010-019	0	128	126	0	2	1	****	16	8	0	101	98	0	2	1	****	20	10	SE(B)****** 0.004 0.005
020-029	0	77	75	0	1	1	****	13	13	0	61	55	0	1	1	****	16	18	A******* -4.302 -4.690
030-039	0	45	54	0	1	0	****	22	0	0	35	32	0	0	0	****	0	0	
040-049	0	46	45	0	0	0	****	0	0	0	15	13	0	0	0	****	0	0	WOMEN
050-059	0	26	26	0	0	0	****	0	0	0	8	7	0	0	0	****	0	0	B******* -0.026 -0.034
060-069	0	24	22	0	1	1	****	42	45	0	21	22	0	0	0	****	0	0	SE(B)****** 0.034 0.041
070-079	0	17	16	0	0	0	****	0	0	0	5	5	0	0	0	****	0	0	A******* -4.469 -4.500
080-457	0	60	58	0	4	3	****	67	52	0	10	9	0	0	0	****	0	0	
UNKNOWN	865	84	82	21	0	0				1095	92	90	12	1	1				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	725	744	729	37	29	26	51	39	36	875	906	938	29	17	10	33	19	11	
NONE	0	136	123	0	6	7	****	44	57	0	375	370	0	11	8	****	29	22	MEN
000-009	0	204	198	0	7	5	****	34	25	0	313	338	0	5	1	****	16	3	B******* -0.003 0.003
010-019	0	76	77	0	2	2	****	26	26	0	54	54	0	0	1	****	0	19	SE(B)****** 0.006 0.005
020-029	0	55	61	0	2	2	****	36	33	0	35	39	0	1	0	****	29	0	A******* -3.197 -3.415
030-039	0	63	61	0	2	1	****	32	16	0	31	34	0	0	0	****	0	0	
040-049	0	35	35	0	1	1	****	29	29	0	16	17	0	0	0	****	0	0	WOMEN
050-059	0	29	25	0	3	2	****	103	80	0	4	3	0	0	0	****	0	0	B******* -0.056 -0.138
060-069	0	24	31	0	0	0	****	0	0	0	7	10	0	0	0	****	0	0	SE(B)****** 0.046 0.122
070-079	0	6	8	0	1	1	****	167	125	0	1	1	0	0	0	****	0	0	A******* -3.680 -4.118
080-457	0	50	43	0	1	2	****	20	47	0	7	7	0	0	0	****	0	0	
UNKNOWN	725	66	67	37	4	3				875	63	65	29	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	341	492	581	18	31	33	53	63	57	435	606	732	31	42	45	71	69	61	
NONE	0	117	132	0	6	6	****	51	45	0	302	358	0	23	25	****	76	70	MEN
000-009	0	144	168	0	6	7	****	42	42	0	186	225	0	12	14	****	65	62	B******* 0.006 0.005
010-019	0	38	53	0	2	3	****	53	57	0	18	32	0	0	0	****	0	0	SE(B)****** 0.004 0.004
020-029	0	22	28	0	3	3	****	136	107	0	19	25	0	1	2	****	53	80	A******* -2.832 -2.886
030-039	0	36	42	0	4	5	****	111	119	0	19	21	0	1	1	****	53	48	
040-049	0	23	29	0	0	0	****	0	0	0	5	7	0	0	0	****	0	0	WOMEN
050-059	0	12	17	0	2	3	****	167	176	0	2	4	0	0	0	****	0	0	B******* 0.017 0.013
060-069	0	8	8	0	0	0	****	0	0	0	1	1	0	1	1	****	1000	1000	SE(B)****** 0.007 0.007
070-079	0	11	12	0	1	1	****	91	83	0	2	1	0	0	0	****	0	0	A******* -2.679 -2.752
080-457	0	35	45	0	5	4	****	143	89	0	5	5	0	2	1	****	400	200	
UNKNOWN	341	46	47	18	2	1				435	47	53	31	2	1				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 8-10-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	2	2		12616	25	20		9044	32	35		2804	18	64	
NONE	1006	1	10	******	1808	4	22	16.6	1864	7	38	31.0	668	7	105	82.8
000-009	2288	0	0	******	3050	4	13	17.0	2288	5	22	31.3	774	5	65	80.3
010-019	1030	0	0	******	1298	0	0	18.4	774	0	0	32.5	238	2	84	71.8
020-029	604	0	0	******	844	3	36	19.8	508	4	79	33.8	182	1	55	63.5
030-039	436	0	0	******	892	1	11	21.2	624	2	32	34.9	212	1	47	58.0
040-049	386	0	0	******	612	3	49	23.1	468	4	85	36.4	124	0	0	50.7
050-059	160	0	0	******	274	2	73	24.8	192	1	52	37.6	72	0	0	45.6
060-069	266	0	0	******	518	1	19	26.4	380	1	26	38.9	114	1	88	41.5
070-079	140	0	0	******	258	1	39	29.0	160	0	0	40.6	54	0	0	36.1
080-457	570	0	0	******	998	4	40	46.9	642	3	47	48.3	234	1	43	22.9
UNKNOWN	2248	1			2064	2			1144	5			132	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	4	4		15826	14	9		11884	29	24		3838	27	70	
NONE	2524	2	8	******	4624	3	6	8.5	5074	15	30	25.4	2006	12	60	57.0
000-009	3736	2	5	******	5380	5	9	7.6	3572	10	28	26.0	1060	6	57	60.2
010-019	852	0	0	******	1052	1	10	4.9	476	0	0	28.9	164	3	183	75.0
020-029	458	0	0	******	632	0	0	3.3	392	0	0	31.4	150	2	133	91.3
030-039	384	0	0	******	738	0	0	2.3	492	1	20	34.2	152	0	0	110.3
040-049	136	0	0	******	268	0	0	1.4	180	0	0	38.3	60	0	0	138.2
050-059	66	0	0	******	88	0	0	0.9	62	0	0	41.6	14	0	0	173.6
060-069	204	0	0	******	324	0	0	0.7	116	2	172	45.4	24	0	0	208.1
070-079	46	0	0	******	94	0	0	0.4	34	0	0	52.0	16	0	0	276.7
080-457	94	0	0	******	188	0	0	0.2	128	1	78	71.0	12	2	1667	754.1
UNKNOWN	2756	0			2438	5			1358	0			180	2		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.008	-0.042	0.004	0.010	-0.011	0.022
SE(B)	******	******	0.003	0.044	0.005	0.007	0.010	0.007
A	*******	*******	-5.707	-6.374	-5.077	-5.278	-4.084	-4.463

TABLE 8-11-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	896	21	14	9	24	16	10	1095	1127	1083	12	11	10	11	10	9
NONE	244	246	258	2	0	0	8	0	0	533	523	495	5	3	3	9	6	6
UNDER 20	147	145	140	5	2	1	34	14	7	358	378	372	6	7	6	17	19	16
20	254	257	263	5	5	2	20	19	8	152	173	163	1	1	1	7	6	6
OVER 20	216	228	230	9	7	6	42	31	26	44	47	47	0	0	0	0	0	0
UNKNOWN	4	6	5	0	0	0				8	6	6	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	725	744	729	37	29	26	51	39	36	875	906	938	29	17	10	33	19	11
NONE	277	267	260	9	6	6	32	22	23	598	589	572	21	13	8	35	22	14
UNDER 20	115	115	113	7	8	6	61	70	53	178	206	235	3	1	1	17	5	4
20	170	188	181	13	5	6	76	27	33	70	79	97	4	3	1	57	38	10
OVER 20	155	165	167	8	10	8	52	61	48	23	29	31	1	0	0	43	0	0
UNKNOWN	8	9	8	0	0	0				6	3	3	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	341	492	581	18	31	33	53	63	57	435	606	732	31	42	45	71	69	61
NONE	162	234	253	6	10	10	37	43	40	346	465	541	26	35	35	75	75	65
UNDER 20	66	92	115	3	3	5	45	33	43	63	96	130	3	4	5	48	42	38
20	73	104	132	5	13	12	68	125	91	16	30	41	1	2	4	63	67	98
OVER 20	37	60	79	4	5	6	108	83	76	8	11	16	1	1	1	125	91	63
UNKNOWN	3	2	2	0	0	0				2	4	4	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.405	0.768	1.082
SE(B)	0.211	0.309	0.465
A	-4.400	-5.639	-6.874
WOMEN			
B	-0.093	0.062	0.028
SE(B)	0.355	0.345	0.366
A	-4.430	-4.664	-4.692
AGE 45-54 AT EXAM			
MEN			
B	0.191	0.234	0.192
SE(B)	0.142	0.162	0.169
A	-3.179	-3.541	-3.570
WOMEN			
B	0.066	-0.159	-0.532
SE(B)	0.241	0.343	0.536
A	-3.397	-3.881	-4.305
AGE 55-64 AT EXAM			
MEN			
B	0.375	0.371	0.302
SE(B)	0.215	0.162	0.158
A	-3.311	-3.132	-3.178
WOMEN			
B	-0.049	-0.144	-0.004
SE(B)	0.311	0.269	0.224
A	-2.549	-2.549	-2.719

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 8-11-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	2	2		12616	25	20		9044	32	35		2804	18	64	
NONE	2858	0	0	1.1	4684	3	6	10.3	4330	14	32	28.7	1620	7	43	45.8
UNDER 20	1418	1	7	1.6	1812	6	33	15.4	1502	2	13	34.6	548	4	73	65.8
20	2478	0	0	2.4	2992	6	20	23.0	1766	9	51	41.7	374	4	107	94.6
OVER 20	2328	1	4	3.7	3056	10	33	34.3	1394	7	50	50.4	254	3	118	135.4
UNKNOWN	52	0			72	0			52	0			8	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	4	4		15826	14	9		11884	29	24		3838	27	70	
NONE	5178	1	2	1.6	9020	8	9	9.1	8518	23	27	25.2	3048	22	72	69.7
UNDER 20	3604	1	3	3.2	3732	4	11	8.8	2066	1	5	23.4	548	3	55	73.2
20	1776	1	6	6.5	2168	1	5	8.5	862	5	58	21.8	162	1	62	76.8
OVER 20	640	1	16	13.1	844	1	12	8.1	394	0	0	20.3	62	1	161	80.7
UNKNOWN	58	0			62	0			44	0			18	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.405	0.699	0.401	-0.037	0.189	-0.073	0.368	0.049
SE(B)	0.656	0.480	0.176	0.302	0.149	0.256	0.205	0.302
A	-8.433	-8.039	-6.179	-6.307	-5.156	-5.285	-4.684	-4.259

TABLE 8-12-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: ALBUMIN IN URINE

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	896	21	14	9	24	16	10	1095	1127	1083	12	11	10	11	10	9
NO	823	868	877	19	13	9	23	15	10	992	1082	1033	9	10	8	9	9	8
POSSIBLE	2	0	3	0	0	0	0	****	0	7	1	5	1	0	1	143	0	200
DEFINITE	21	7	12	1	1	0	48	143	0	72	40	42	2	1	1	28	25	24
UNKNOWN	19	7	4	1	0	0				24	4	3	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	725	744	729	37	29	26	51	39	36	875	906	938	29	17	10	33	19	11
NO	692	733	719	35	29	25	51	40	35	801	867	892	25	17	10	31	20	11
POSSIBLE	1	0	0	0	0	0	0	****	****	7	4	6	1	0	0	143	0	0
DEFINITE	23	9	10	1	0	1	43	0	100	57	33	39	3	0	0	53	0	0
UNKNOWN	9	2	0	1	0	0				10	2	1	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	341	492	581	18	31	33	53	63	57	435	606	732	31	42	45	71	69	61
NO	320	474	557	17	31	32	53	65	57	403	584	700	28	40	40	69	68	57
POSSIBLE	1	1	6	0	0	0	0	0	0	0	0	2	0	0	0	****	****	0
DEFINITE	13	14	16	1	0	1	77	0	63	24	18	27	3	2	5	125	111	185
UNKNOWN	7	3	2	0	0	0				8	4	3	0	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.358	1.197	*******
SE(B)	0.529	0.558	******
A	-3.747	-4.186	*******
WOMEN			
B	0.647	0.502	0.736
SE(B)	0.364	0.532	0.454
A	-4.646	-4.675	-4.797
AGE 45-54 AT EXAM			
MEN			
B	-0.091	*******	0.563
SE(B)	0.521	******	0.537
A	-2.933	*******	-3.324
WOMEN			
B	0.324	**********	
SE(B)	0.297	******	******
A	-3.421	**********	
AGE 55-64 AT EXAM			
MEN			
B	0.181	*******	-0.047
SE(B)	0.539	******	0.545
A	-2.882	*******	-2.803
WOMEN			
B	0.324	0.265	0.649
SE(B)	0.324	0.384	0.262
A	-2.595	-2.610	-2.806

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 8-12-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: ALBUMIN IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	2	2		12616	25	20		9044	32	35		2804	18	64	
NO	8886	2	2	******	12324	23	19	18.6	8606	30	35	34.6	2616	15	57	56.8
POSSIBLE	20	0	0	******	42	0	0	40.9	82	0	0	44.2	26	0	0	102.6
DEFINITE	152	0	0	******	214	2	93	89.4	322	2	62	56.5	156	3	192	183.8
UNKNOWN	76	0			36	0			34	0			6	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	4	4		15826	14	9		11884	29	24		3838	27	70	
NO	10640	4	4	******	15102	12	8	8.2	11352	26	23	23.6	3652	24	66	65.1
POSSIBLE	90	0	0	******	134	1	75	14.5	116	2	172	33.7	38	0	0	116.7
DEFINITE	450	0	0	******	552	1	18	25.4	376	1	27	48.0	134	3	224	207.3
UNKNOWN	76	0			38	0			40	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	0.793	0.567	0.246	0.357	0.600	0.594
SE(B)	******	******	0.376	0.441	0.376	0.378	0.326	0.319
A	*******	*******	-5.591	-6.410	-4.965	-5.351	-4.466	-4.328

TABLE 8-13-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: SUGAR IN URINE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	896	21	14	9	24	16	10	1095	1127	1083	12	11	10	11	10	9	
																			MEN
NO	825	871	886	18	14	9	22	16	10	1059	1119	1075	12	11	10	11	10	9	B 0.994**********
POSSIBLE	13	2	0	1	0	0	77	0	****	7	0	0	0	0	0	0	****	****	SE(B) 0.487 ****** ******
DEFINITE	8	2	6	1	0	0	125	0	0	5	4	5	0	0	0	0	0	0	A -3.796**********
UNKNOWN	19	7	4	1	0	0				24	4	3	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	725	744	729	37	29	26	51	39	36	875	906	938	29	17	10	33	19	11	
																			MEN
NO	685	718	705	31	26	23	45	36	33	845	894	924	29	17	9	34	19	10	B 1.004 0.808 0.712
POSSIBLE	20	11	11	2	1	2	100	91	182	11	1	2	0	0	1	0	0	500	SE(B) 0.328 0.375 0.412
DEFINITE	11	13	13	3	2	1	273	154	77	9	9	11	0	0	0	0	0	0	A -3.054 -3.279 -3.361
UNKNOWN	9	2	0	1	0	0				10	2	1	0	0	0				WOMEN
																			B********** 0.740
																			SE(B)****** ****** 0.749
																			A********** -4.569
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	341	492	581	18	31	33	53	63	57	435	606	732	31	42	45	71	69	61	
																			MEN
NO	319	476	559	17	29	32	53	61	57	413	586	716	29	39	43	70	67	60	B -0.087 0.402 -0.015
POSSIBLE	9	2	4	1	1	0	111	500	0	5	3	0	0	0	0	0	0	****	SE(B) 0.838 0.454 0.538
DEFINITE	6	11	16	0	1	1	0	91	63	9	13	13	2	3	2	222	231	154	A -2.860 -2.720 -2.805
UNKNOWN	7	3	2	0	0	0				8	4	3	0	0	0				WOMEN
																			B 0.571 0.680 0.523
																			SE(B) 0.420 0.342 0.392
																			A -2.594 -2.646 -2.751

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 8-13-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: SUGAR IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	2	2		12616	25	20		9044	32	35		2804	18	64	
NO	8946	2	2	******	12264	23	19	19.0	8698	29	33	33.7	2674	17	64	63.4
POSSIBLE	48	0	0	******	116	1	86	35.0	54	1	185	55.5	14	0	0	73.9
DEFINITE	72	0	0	******	202	1	50	64.2	258	2	78	91.1	110	1	91	86.2
UNKNOWN	68	0			34	0			34	0			6	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	4	4		15826	14	9		11884	29	24		3838	27	70	
NO	11098	4	4	******	15602	13	8	8.3	11630	27	23	23.1	3748	26	69	69.2
POSSIBLE	20	0	0	******	48	0	0	23.7	46	0	0	50.5	12	0	0	100.9
DEFINITE	62	0	0	******	140	1	71	67.4	172	2	116	109.5	64	1	156	146.8
UNKNOWN	76	0			36	0			36	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	0.614	1.053	0.502	0.787	0.156	0.384
SE(B)	******	******	0.440	0.530	0.338	0.376	0.526	0.525
A	*******	*******	-5.569	-6.400	-4.992	-5.372	-4.355	-4.266

TABLE 8-14-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	896	21	14	9	24	16	10	1095	1127	1083	12	11	10	11	10	9	
																			MEN
NO	771	780	815	15	11	9	19	14	11	953	1017	1013	10	9	10	10	9	10	B 0.526 0.424*******
POSSIBLE	26	35	43	2	1	0	77	29	0	56	39	36	1	2	0	18	51	0	SE(B) 0.297 0.372 ******
DEFINITE	64	65	37	3	2	0	47	31	0	82	70	33	1	0	0	12	0	0	A -3.882 -4.236*******
UNKNOWN	4	2	1	1	0	0				4	1	1	0	0	0				WOMEN
																			B 0.142 0.084*******
																			SE(B) 0.471 0.560 ******
																			A -4.531 -4.633*******
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	725	744	729	37	29	26	51	39	36	875	906	938	29	17	10	33	19	11	
																			MEN
NO	575	645	643	26	25	20	45	39	31	626	685	760	17	8	6	27	12	8	B 0.209 0.087 0.475
POSSIBLE	23	40	42	2	1	3	87	25	71	60	79	96	1	3	0	17	38	0	SE(B) 0.204 0.313 0.290
DEFINITE	123	59	44	8	3	3	65	51	68	183	142	82	11	6	4	60	42	49	A -3.036 -3.225 -3.416
UNKNOWN	4	0	0	1	0	0				6	0	0	0	0	0				WOMEN
																			B 0.402 0.671 0.888
																			SE(B) 0.203 0.264 0.358
																			A -3.619 -4.371 -4.976
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	341	492	581	18	31	33	53	63	57	435	606	732	31	42	45	71	69	61	
																			MEN
NO	245	373	471	11	24	24	45	64	51	252	364	470	13	20	23	52	55	49	B 0.348 -0.081 0.283
POSSIBLE	16	44	49	0	3	4	0	68	82	34	80	115	2	3	6	59	38	52	SE(B) 0.258 0.262 0.241
DEFINITE	79	75	61	7	4	5	89	53	82	145	162	147	16	19	16	110	117	109	A -3.104 -2.669 -2.909
UNKNOWN	1	0	0	0	0	0				4	0	0	0	0	0				WOMEN
																			B 0.414 0.408 0.420
																			SE(B) 0.196 0.174 0.174
																			A -2.933 -2.926 -3.014

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 8-14-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	2	2		12616	25	20		9044	32	35		2804	18	64	
NO	8272	1	1	1.1	10690	20	19	18.6	6912	22	32	31.9	1814	9	50	43.5
POSSIBLE	386	0	0	4.7	926	2	22	23.4	948	4	42	40.5	438	1	23	73.8
DEFINITE	456	1	22	19.9	988	3	30	29.5	1182	6	51	51.4	552	8	145	124.7
UNKNOWN	20	0			12	0			2	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	4	4		15826	14	9		11884	29	24		3838	27	70	
NO	10340	4	4	******	12834	12	9	9.3	7512	10	13	11.8	1840	8	43	36.1
POSSIBLE	398	0	0	******	1380	1	7	7.6	1940	3	15	27.0	710	2	28	66.4
DEFINITE	502	0	0	******	1600	1	6	6.1	2424	16	66	61.4	1288	17	132	121.5
UNKNOWN	16	0			12	0			8	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	1.451	*******	0.231	-0.212	0.240	0.829	0.535	0.615
SE(B)	0.742	******	0.299	0.482	0.224	0.211	0.263	0.229
A	-8.422	*******	-5.589	-6.282	-5.047	-6.045	-4.737	-4.924

TABLE B-15-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	896	21	14	9	24	16	10	1095	1127	1083	12	11	10	11	10	9
NO	840	847	864	18	10	7	21	12	8	1085	1108	1064	12	11	10	11	10	9
POSSIBLE	16	27	27	3	4	2	188	148	74	7	15	15	0	0	0	0	0	0
DEFINITE	9	8	5	0	0	0	0	0	0	3	4	4	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	725	744	729	37	29	26	51	39	36	875	906	938	29	17	10	33	19	11
NO	691	696	679	32	24	19	46	34	28	844	862	902	25	16	10	30	19	11
POSSIBLE	18	23	28	3	3	5	167	130	179	15	30	25	3	1	0	200	33	0
DEFINITE	16	25	22	2	2	2	125	80	91	16	14	11	1	0	0	63	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	341	492	581	18	31	33	53	63	57	435	606	732	31	42	45	71	69	61
NO	309	432	515	14	25	24	45	58	47	419	548	648	26	27	30	62	49	46
POSSIBLE	15	31	30	2	1	3	133	32	100	7	33	46	2	8	8	286	242	174
DEFINITE	17	29	36	2	5	6	118	172	167	9	25	38	3	7	7	333	280	184
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.882	1.345	1.332
SE(B)	0.486	0.456	0.638
A	-3.762	-4.301	-4.730
WOMEN			
B	**********	**********	**********
SE(B)	******	******	******
A	**********	**********	**********
AGE 45-54 AT EXAM			
MEN			
B	0.700	0.608	0.903
SE(B)	0.326	0.320	0.299
A	-3.003	-3.299	-3.469
WOMEN			
B	0.758	-0.061	*******
SE(B)	0.371	0.850	******
A	-3.448	-3.953	*******
AGE 55-64 AT EXAM			
MEN			
B	0.603	0.513	0.715
SE(B)	0.360	0.273	0.238
A	-3.019	-2.829	-3.013
WOMEN			
B	1.102	1.127	0.865
SE(B)	0.343	0.222	0.207
A	-2.699	-2.899	-2.974

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 8-15-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	2	2		12616	25	20		9044	32	35		2804	18	64	
NO	8800	2	2	******	11808	19	16	17.3	8044	15	19	19.8	2348	16	68	67.7
POSSIBLE	262	0	0	******	534	5	94	39.4	552	6	109	73.9	236	1	42	52.2
DEFINITE	72	0	0	******	274	1	36	89.3	448	11	246	267.0	220	1	45	40.2
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	4	4		15826	14	9		11884	29	24		3838	27	70	
NO	11062	4	4	******	15296	14	9	******	10784	17	16	15.4	3288	15	46	48.8
POSSIBLE	138	0	0	******	384	0	0	******	676	3	44	56.4	318	6	189	123.1
DEFINITE	56	0	0	******	146	0	0	******	424	9	212	202.6	232	6	259	303.6
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.828	*******	1.325	1.308	-0.263	0.940
SE(B)	******	******	0.320	******	0.194	0.211	0.486	0.228
A	*******	*******	-5.662	*******	-5.525	-5.781	-4.289	-4.620

TABLE 8-16-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	896	21	14	9	24	16	10	1095	1127	1083	12	11	10	11	10	9
NO	845	861	870	20	13	8	24	15	9	1077	1111	1070	12	11	10	11	10	9
YES	20	21	26	1	1	1	50	48	38	18	16	13	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	725	744	729	37	29	26	51	39	36	875	906	938	29	17	10	33	19	11
NO	700	726	704	34	27	26	49	37	37	854	869	905	25	15	9	29	17	10
YES	25	18	25	3	2	0	120	111	0	21	37	33	4	2	1	190	54	30
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	341	492	581	18	31	33	53	63	57	435	606	732	31	42	45	71	69	61
NO	329	468	547	17	29	31	52	62	57	421	573	683	27	34	36	64	59	53
YES	12	24	34	1	2	2	83	83	59	14	33	49	4	8	9	286	242	184
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.775	1.182	1.461
SE(B)	1.051	1.062	1.080
A	-3.720	-4.178	-4.680
WOMEN			
B	**********	**********	**********
SE(B)	******	******	******
A	**********	**********	**********
AGE 45-54 AT EXAM			
MEN			
B	0.982	1.174	*******
SE(B)	0.640	0.775	******
A	-2.975	-3.254	*******
WOMEN			
B	2.054	1.180	1.135
SE(B)	0.592	0.772	1.069
A	-3.501	-4.042	-4.601
AGE 55-64 AT EXAM			
MEN			
B	0.512	0.319	0.040
SE(B)	1.074	0.763	0.752
A	-2.910	-2.717	-2.812
WOMEN			
B	1.764	1.624	1.397
SE(B)	0.624	0.443	0.407
A	-2.681	-2.763	-2.889

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 8-16-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	2	2		12616	25	20		9044	32	35		2804	18	64	
NO	8886	2	2	2.3	12046	23	19	19.1	8472	28	33	33.1	2542	17	67	66.9
YES	248	0	0	0.0	570	2	35	35.1	572	4	70	69.9	262	1	38	38.2
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	4	4		15826	14	9		11884	29	24		3838	27	70	
NO	11054	4	4	3.6	15278	13	9	8.5	11182	26	23	23.3	3506	21	60	59.9
YES	202	0	0	0.0	548	1	18	18.2	702	3	43	42.7	332	6	181	180.7
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.612	0.765	0.757	0.613	-0.567	1.129
SE(B)	******	******	0.740	1.040	0.538	0.612	1.033	0.470
A	*******	*******	-5.564	-6.374	-5.013	-5.366	-4.301	-4.413

TABLE 8-17-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: DIABETES MELLITUS

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	896	21	14	9	24	16	10	1095	1127	1083	12	11	10	11	10	9
NO	853	872	886	20	14	9	23	16	10	1087	1121	1077	12	11	10	11	10	9
YES	12	10	10	1	0	0	83	0	0	8	6	6	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	725	744	729	37	29	26	51	39	36	875	906	938	29	17	10	33	19	11
NO	703	719	706	32	24	22	46	33	31	854	891	915	26	17	9	30	19	10
YES	22	25	23	5	5	4	227	200	174	21	15	23	3	0	1	143	0	43
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	341	492	581	18	31	33	53	63	57	435	606	732	31	42	45	71	69	61
NO	326	472	556	17	28	29	52	59	52	422	580	703	28	36	41	66	62	58
YES	15	20	25	1	3	4	67	150	160	13	26	29	3	6	4	231	231	138
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	1.331**********		
SE(B)	1.069 ******	******	
A	-3.729**********		
WOMEN			
B	**********		
SE(B)	******	******	******
A	**********		
AGE 45-54 AT EXAM			
MEN			
B	1.819	1.980	1.879
SE(B)	0.540	0.541	0.591
A	-3.043	-3.366	-3.437
WOMEN			
B	1.669*******		1.521
SE(B)	0.655 ******		1.076
A	-3.461*******		-4.612
AGE 55-64 AT EXAM			
MEN			
B	0.261	1.029	1.242
SE(B)	1.065	0.656	0.578
A	-2.900	-2.764	-2.900
WOMEN			
B	1.440	1.511	0.949
SE(B)	0.687	0.496	0.562
A	-2.644	-2.715	-2.782

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 8-17-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: DIABETES MELLITUS

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	2	2		12616	25	20		9044	32	35		2804	18	64	
NO	9038	2	2	2.2	12250	22	18	18.0	8592	29	34	33.8	2610	16	61	61.3
YES	96	0	0	0.0	366	3	82	82.0	452	3	66	66.4	194	2	103	103.1
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	4	4		15826	14	9		11884	29	24		3838	27	70	
NO	11178	4	4	3.6	15532	14	9	9.0	11434	25	22	21.9	3608	24	67	66.5
YES	78	0	0	0.0	294	0	0	0.0	450	4	89	88.9	230	3	130	130.4
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	1.531	*******	0.683	1.416	0.528	0.686
SE(B)	******	******	0.620	******	0.610	0.543	0.757	0.620
A	*******	*******	-5.625	*******	-4.991	-5.428	-4.389	-4.306

TABLE 8-1B-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: HYPERTENSION

	- MEN -									- WOMEN -									LOGISTIC PARAMETERS		
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000					
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																					
TOTAL	865	882	896	21	14	9	24	16	10	1095	1127	1083	12	11	10	11	10	9			
NO	381	507	600	4	7	2	10	14	3	709	874	871	4	7	6	6	8	7			
BORDER	355	266	212	10	3	5	28	11	24	291	187	169	5	2	3	17	11	18			
DEFINITE	129	109	84	7	4	2	54	37	24	95	66	43	3	2	1	32	30	23			
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0						
AGE 35-44 AT EXAM																					
MEN																					
B																			0.825	0.435	0.999
SE(B)																			0.302	0.347	0.409
A																			-4.451	-4.415	-5.277
WOMEN																					
B																			0.889	0.613	0.716
SE(B)																			0.366	0.409	0.451
A																			-5.088	-4.865	-4.927
AGE 45-54 AT EXAM																					
TOTAL	725	744	729	37	29	26	51	39	36	875	906	938	29	17	10	33	19	11			
NO	289	373	397	7	6	6	24	16	15	310	418	513	7	4	4	23	10	8			
BORDER	267	241	220	10	8	8	37	33	36	361	304	260	10	7	3	28	23	12			
DEFINITE	169	130	112	20	15	12	118	115	107	204	184	165	12	6	3	59	33	18			
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0						
AGE 45-54 AT EXAM																					
MEN																					
B																			0.913	1.081	1.042
SE(B)																			0.232	0.253	0.258
A																			-3.912	-4.261	-4.235
WOMEN																					
B																			0.527	0.606	0.427
SE(B)																			0.252	0.308	0.385
A																			-3.912	-4.517	-4.855
AGE 55-64 AT EXAM																					
TOTAL	341	492	581	18	31	33	53	63	57	435	606	732	31	42	45	71	69	61			
NO	123	219	298	4	7	8	33	32	27	102	161	256	2	2	7	20	12	27			
BORDER	129	164	172	8	8	11	62	49	64	177	232	250	10	15	12	56	65	48			
DEFINITE	89	109	111	6	16	14	67	147	126	156	213	226	19	25	26	122	117	115			
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0						
AGE 55-64 AT EXAM																					
MEN																					
B																			0.362	0.872	0.821
SE(B)																			0.311	0.244	0.225
A																			-3.249	-3.586	-3.557
WOMEN																					
B																			0.913	0.939	0.803
SE(B)																			0.296	0.249	0.212
A																			-3.786	-3.832	-3.677

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 8-18-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: HYPERTENSION

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	2	2		12616	25	20		9044	32	35		2804	18	64	
NO	5392	1	2	2.2	6530	6	9	9.7	4132	6	15	11.6	1128	4	35	37.4
BORDER	2692	1	4	2.1	3892	9	23	21.4	2918	7	24	32.3	1022	7	68	64.3
DEFINITE	1050	0	0	2.0	2194	10	46	47.1	1994	19	95	89.2	654	7	107	110.3
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	4	4		15826	14	9		11884	29	24		3838	27	70	
NO	8554	4	5	******	8756	4	5	4.8	4186	6	14	12.3	892	1	11	26.2
BORDER	2036	0	0	******	4610	5	11	10.0	4290	8	19	22.6	1516	11	73	54.9
DEFINITE	666	0	0	******	2460	5	20	21.1	3408	15	44	41.5	1430	15	105	114.3
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	-0.052	*******	0.794	0.744	1.028	0.611	0.549	0.745
SE(B)	1.040	******	0.250	0.328	0.241	0.247	0.305	0.298
A	-7.706	*******	-6.243	-6.952	-6.064	-6.005	-4.889	-5.246

TABLE 8-19-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: GLUCOSE INTOLERANCE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	896	21	14	9	24	16	10	1095	1127	1083	12	11	10	11	10	9	
																			MEN
NO	826	863	877	19	14	9	23	16	10	1072	1111	1064	12	10	10	11	9	9	B C.831**********
YES	39	19	19	2	0	0	51	0	0	23	16	19	0	1	0	0	63	0	SE(B) C.762 ****** ******
																			A -3.749**********
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B******* 1.993*******
																			SE(B)****** 1.081 ******
																			A******* -4.701*******
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	725	744	729	37	29	26	51	39	36	875	906	938	29	17	10	33	19	11	
																			MEN
NO	676	694	687	30	22	21	44	32	31	835	880	904	26	17	9	31	19	10	B 1.278 1.604 1.455
YES	49	50	42	7	7	5	143	140	119	40	26	34	3	0	1	75	0	29	SE(B) 0.449 0.462 0.525
																			A -3.070 -3.419 -3.457
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B C.925******* 1.103
																			SE(B) C.633 ****** 1.069
																			A -3.438******* -4.600
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	341	492	581	18	31	33	53	63	57	435	606	732	31	42	45	71	69	61	
																			MEN
NO	314	460	536	16	28	27	51	61	50	403	566	683	27	35	40	67	62	59	B 0.399 0.468 1.065
YES	27	32	45	2	3	6	74	94	133	32	40	49	4	7	5	125	175	102	SE(B) 0.778 0.637 0.481
																			A -2.925 -2.736 -2.937
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 0.688 1.169 0.603
																			SE(B) 0.570 0.451 0.459
																			A -2.634 -2.719 -2.777

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 8-19-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CEREBROVASCULAR ACCIDENT
CHARACTERISTIC: GLUCOSE INTOLERANCE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	2	2		12616	25	20		9044	32	35		2804	18	64	
NO	8856	2	2	2.3	11900	21	18	17.6	8316	28	34	33.7	2516	16	64	63.6
YES	278	0	0	0.0	716	4	56	55.9	728	4	55	54.9	288	2	69	69.4
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	4	4		15826	14	9		11884	29	24		3838	27	70	
NO	11070	4	4	3.6	15310	13	8	8.5	11140	25	22	22.4	3470	22	63	63.4
YES	186	0	0	0.0	516	1	19	19.4	744	4	54	53.8	368	5	136	135.9
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	1.160	0.827	0.494	0.880	0.089	0.777
SE(B)	******	******	0.548	1.040	0.537	0.541	0.755	0.502
A	*******	*******	-5.643	-6.376	-4.994	-5.402	-4.352	-4.355

TABLE 9-1-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	896	11	7	4	13	8	4	1095	1127	1083	6	4	4	5	4	4
074-109	35	71	92	0	1	0	0	14	0	102	204	248	0	0	1	0	0	4
110-119	116	163	192	0	0	0	0	0	0	234	311	312	0	1	0	0	3	0
120-129	185	219	246	0	0	0	0	0	0	280	268	263	0	0	0	0	0	0
130-139	237	207	186	3	2	1	13	10	5	212	180	138	2	1	1	9	6	7
140-149	156	127	101	3	3	1	19	24	10	120	83	67	1	0	0	8	0	0
150-159	56	49	38	3	0	1	54	0	26	68	43	28	2	1	1	29	23	36
160-169	41	22	21	1	0	0	24	0	0	46	17	14	0	1	0	0	59	0
170-179	24	13	10	0	0	0	0	0	0	18	10	6	0	0	1	0	0	167
180-189	7	6	8	1	1	1	143	167	125	7	8	2	1	0	0	143	0	0
190-300	8	5	2	0	0	0	0	0	0	8	3	5	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	725	744	729	20	15	13	28	20	18	875	906	938	17	12	7	19	13	7
074-109	23	48	52	0	0	0	0	0	0	23	49	104	0	0	0	0	0	0
110-119	85	122	138	1	1	1	12	8	7	66	129	165	0	1	1	0	8	6
120-129	149	163	165	1	1	1	7	6	6	142	156	175	0	3	2	0	19	11
130-139	141	167	146	4	2	2	28	12	14	177	181	172	3	1	1	17	6	6
140-149	126	110	109	0	1	2	0	9	18	134	129	103	0	1	0	0	8	0
150-159	76	61	53	3	2	3	39	33	57	108	96	83	1	1	0	9	10	0
160-169	53	32	32	3	1	2	57	31	63	77	62	50	2	0	0	26	0	0
170-179	31	15	17	2	2	0	65	133	0	55	31	40	3	2	0	55	65	0
180-189	18	12	7	1	2	0	56	167	0	41	34	21	3	1	3	73	29	143
190-300	23	14	10	5	3	2	217	214	200	52	39	25	5	2	0	96	51	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	341	492	581	9	18	21	26	37	36	435	606	732	19	24	25	44	40	34
074-109	10	25	48	0	0	1	0	0	21	13	17	27	0	0	0	0	0	0
110-119	24	54	83	0	1	1	0	19	12	17	38	56	0	1	1	0	26	18
120-129	53	82	107	0	0	0	0	0	0	41	64	111	1	0	1	24	0	9
130-139	66	105	112	1	3	2	15	29	18	67	85	125	0	0	1	0	0	8
140-149	56	71	65	3	2	3	54	28	46	61	82	93	1	2	0	16	24	0
150-159	52	49	63	0	0	3	0	0	48	66	104	89	4	2	1	61	19	11
160-169	25	41	38	2	5	2	80	122	53	43	70	65	2	4	4	47	57	62
170-179	22	19	17	0	2	2	0	105	118	45	49	59	3	2	4	67	41	68
180-189	11	15	17	0	1	1	0	67	59	26	33	45	2	6	6	77	182	133
190-300	22	31	31	3	4	6	136	129	194	56	64	62	6	7	7	107	109	113
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.038	0.030	*******
SE(B)	0.013	0.018	******
A	-9.630	-8.846	*******
WOMEN			
B	0.031	**********	
SE(B)	0.013	******	******
A	-9.385	**********	
AGE 45-54 AT EXAM			
MEN			
B	0.038	0.049	0.039
SE(B)	0.008	0.009	0.011
A	-9.235	-10.993	-9.431
WOMEN			
B	0.025	0.020	0.018
SE(B)	0.006	0.007	0.011
A	-7.841	-7.246	-7.483
AGE 55-64 AT EXAM			
MEN			
B	0.027	0.027	0.034
SE(B)	0.009	0.007	0.007
A	-7.880	-7.314	-8.425
WOMEN			
B	0.019	0.026	0.027
SE(B)	0.006	0.007	0.006
A	-6.230	-7.498	-7.675

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 9-1-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	0	0		12616	11	9		9044	21	23		2804	7	25	
074-109	718	0	0	******	768	0	0	3.1	520	1	19	3.8	142	0	0	8.0
110-119	1746	0	0	******	2114	3	14	4.2	1132	0	0	5.5	246	1	41	10.5
120-129	2346	0	0	******	2740	0	0	5.5	1644	0	0	7.8	396	0	0	12.7
130-139	2086	0	0	******	2732	2	7	7.2	1728	2	12	11.3	524	1	19	16.2
140-149	1204	0	0	******	1818	0	0	9.5	1360	1	7	16.1	460	1	22	20.0
150-159	530	0	0	******	1110	1	9	12.5	954	3	31	23.2	346	1	29	24.8
160-169	256	0	0	******	602	3	50	16.3	640	4	63	32.8	240	1	42	30.6
170-179	140	0	0	******	332	0	0	21.3	414	1	24	46.9	142	0	0	38.2
180-189	64	0	0	******	206	0	0	28.4	262	3	115	65.8	114	0	0	48.2
190-300	44	0	0	******	194	2	103	52.1	390	6	154	174.4	194	2	103	86.0
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	0	0		15826	9	6		11884	21	18		3838	12	31	
074-109	2024	0	0	******	1400	0	0	1.9	438	0	0	3.3	72	0	0	8.3
110-119	2958	0	0	******	2686	1	4	2.6	1060	0	0	4.6	210	0	0	10.6
120-129	2714	0	0	******	3112	2	6	3.3	1592	0	0	6.0	320	1	31	13.1
130-139	1788	0	0	******	3082	0	0	4.2	1956	3	15	8.0	526	0	0	16.5
140-149	898	0	0	******	1984	1	5	5.5	1732	2	12	10.7	608	0	0	20.3
150-159	454	0	0	******	1398	2	14	7.0	1598	3	19	14.2	570	1	18	25.2
160-169	218	0	0	******	804	0	0	9.1	1148	1	9	18.9	466	3	64	31.1
170-179	96	0	0	******	528	0	0	11.7	854	3	35	25.1	374	1	27	38.7
180-189	56	0	0	******	402	1	25	15.0	620	0	0	33.2	274	2	73	48.2
190-300	50	0	0	******	430	2	47	39.3	886	9	102	83.0	418	4	96	84.7
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.028	0.026	0.037	0.029	0.022	0.022
SE(B)	******	******	0.011	0.008	0.006	0.005	0.011	0.009
A	*******	*******	-10.244	-10.490	-10.983	-10.295	-8.713	-8.669

TABLE 9-2-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	- M E N -									- W O M E N -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	896	11	7	4	13	8	4	1095	1127	1083	6	4	4	5	4	4
020-069	44	80	94	0	0	0	0	0	0	104	205	230	0	0	0	0	0	0
070-074	110	136	153	1	1	0	9	7	0	198	252	263	0	0	1	0	0	4
075-079	71	93	117	0	0	1	0	0	9	136	154	188	0	1	0	0	6	0
080-084	195	210	185	1	1	0	5	5	0	276	248	179	0	0	1	0	0	6
085-089	113	107	130	0	1	0	0	9	0	102	107	97	1	1	0	10	9	0
090-094	156	115	104	4	2	1	26	17	10	144	76	65	2	0	0	14	0	0
095-099	62	65	45	1	0	0	16	0	0	51	35	29	2	1	1	39	29	34
100-104	63	34	36	3	0	0	48	0	0	50	27	19	0	0	0	0	0	0
105-109	11	21	17	0	1	2	0	48	118	11	13	5	0	1	1	0	77	200
110-160	40	21	15	1	1	0	25	48	0	23	10	8	1	0	0	43	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	725	744	729	20	15	13	28	20	18	875	906	938	17	12	7	19	13	7
020-069	21	58	65	0	0	0	0	0	0	21	63	99	0	0	0	0	0	0
070-074	70	77	96	1	1	1	14	13	10	76	124	132	0	1	0	0	8	0
075-079	59	93	95	0	0	0	0	0	0	82	103	135	0	1	0	0	10	0
080-084	176	146	145	2	0	0	11	0	0	192	187	205	1	2	2	5	11	10
085-089	74	103	101	1	2	1	14	19	10	100	113	123	1	0	1	10	0	8
090-094	130	109	89	2	1	3	15	9	34	160	129	92	0	2	1	0	16	11
095-099	57	60	61	4	4	6	70	67	98	71	54	58	3	0	0	42	0	0
100-104	71	54	32	2	3	0	28	56	0	76	52	40	3	1	0	39	19	0
105-109	23	17	18	0	0	1	0	0	56	26	26	17	3	2	0	115	77	0
110-160	44	27	27	8	4	1	182	148	37	71	55	37	6	3	3	85	55	81
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	341	492	581	9	18	21	26	37	36	435	606	732	19	24	25	44	40	34
020-069	19	42	60	0	0	1	0	0	17	13	31	52	0	1	0	0	32	0
070-074	32	65	92	0	0	0	0	0	0	36	67	80	1	0	0	28	0	0
075-079	40	66	66	1	2	3	25	30	45	27	56	79	0	0	1	0	0	13
080-084	72	92	119	1	1	2	14	11	17	74	110	149	1	0	3	14	0	20
085-089	36	45	68	1	1	1	28	22	15	55	73	101	3	3	0	55	41	0
090-094	56	72	64	3	3	2	54	42	31	81	91	103	4	3	1	49	33	10
095-099	22	30	40	0	3	4	0	100	100	35	59	60	1	2	6	29	34	100
100-104	28	35	20	0	3	0	0	86	0	51	50	40	1	7	5	20	140	125
105-109	7	9	19	0	1	1	0	111	53	12	22	25	1	2	1	83	91	40
110-160	29	36	33	3	4	7	103	111	212	51	47	43	7	6	8	137	128	186
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.047	0.069	*******
SE(B)	0.021	0.029	******
A	-8.522	-10.861	*******
WOMEN			
B	0.064	**********	
SE(B)	0.022	******	******
A	-10.758	**********	
AGE 45-54 AT EXAM			
MEN			
B	0.075	0.091	0.068
SE(B)	0.015	0.019	0.021
A	-10.699	-12.227	-10.035
WOMEN			
B	0.064	0.050	0.060
SE(B)	0.014	0.016	0.019
A	-10.014	-8.849	-10.230
AGE 55-64 AT EXAM			
MEN			
B	0.060	0.062	0.062
SE(B)	0.019	0.015	0.013
A	-9.270	-8.965	-8.929
WOMEN			
B	0.039	0.055	0.074
SE(B)	0.013	0.013	0.014
A	-6.826	-8.388	-10.215

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 9-2-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	0	0		12616	11	9		9044	21	23		2804	7	25	
020-069	728	0	0	******	768	0	0	4.2	714	1	14	2.8	338	1	30	13.8
070-074	1324	0	0	******	1536	2	13	5.3	1234	1	8	4.6	468	1	21	17.3
075-079	998	0	0	******	1290	0	0	6.2	952	1	11	6.8	300	0	0	19.9
080-084	2268	0	0	******	3030	2	7	7.2	2000	0	0	9.9	590	1	17	22.5
085-089	1240	0	0	******	1698	1	6	8.5	1002	0	0	14.6	300	1	33	26.0
090-094	1190	0	0	******	1808	2	11	9.9	1272	3	24	21.1	354	0	0	29.5
095-099	560	0	0	******	858	1	12	11.6	584	3	51	30.8	128	0	0	33.4
100-104	472	0	0	******	884	2	23	13.4	626	3	48	43.7	166	2	120	37.8
105-109	136	0	0	******	286	0	0	15.9	190	3	158	65.9	34	0	0	45.2
110-160	218	0	0	******	458	1	22	21.5	470	6	128	163.5	126	1	79	60.6
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	0	0		15826	9	6		11884	21	18		3838	12	31	
020-069	1914	0	0	******	1416	0	0	1.4	770	0	0	3.5	302	0	0	8.6
070-074	2416	0	0	******	2460	0	0	2.1	1408	1	7	5.3	462	0	0	12.4
075-079	1588	0	0	******	1790	1	6	2.8	1076	2	19	7.3	334	0	0	16.1
080-084	2472	0	0	******	3678	1	3	3.7	2558	1	4	9.6	878	3	34	20.2
085-089	1106	0	0	******	1910	1	5	4.9	1484	3	20	12.9	376	1	27	26.4
090-094	880	0	0	******	2020	1	5	6.5	1894	3	16	17.3	632	3	47	33.3
095-099	362	0	0	******	792	2	25	8.4	788	2	25	22.9	282	1	35	42.5
100-104	290	0	0	******	820	0	0	11.0	914	0	0	30.3	298	0	0	53.8
105-109	100	0	0	******	272	0	0	15.0	288	3	104	41.1	62	1	161	69.6
110-160	128	0	0	******	668	3	45	33.2	704	6	85	82.8	212	3	142	119.1
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.031	0.056	0.076	0.058	0.027	0.050
SE(B)	******	******	0.022	0.017	0.013	0.013	0.024	0.018
A	*******	*******	-9.099	-11.775	-12.444	-11.013	-7.587	-9.551

TABLE 9-3-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	896	11	7	4	13	8	4	1095	1127	1083	6	4	4	5	4	4	
096-189	140	172	174	0	0	0	0	0	0	213	334	331	2	2	0	9	6	0	MEN
190-204	94	100	116	1	0	0	11	0	0	133	206	187	0	0	0	0	0	0	B 0.012 0.018*******
205-219	58	137	141	0	0	0	0	0	0	85	153	155	0	1	2	0	7	13	SE(B) 0.005 0.004 ******
220-234	108	144	132	1	0	0	9	0	0	98	135	131	3	1	2	31	7	15	A -6.982 -9.476*******
235-249	50	95	101	1	0	0	20	0	0	50	90	96	0	0	0	0	0	0	
250-264	53	72	76	1	2	2	19	28	26	46	56	57	0	0	0	0	0	0	WOMEN
265-279	29	54	48	3	0	1	103	0	21	23	55	36	1	0	0	43	0	0	B 0.005**********
280-294	18	32	37	0	2	0	0	63	0	16	28	29	0	0	0	0	0	0	SE(B) 0.011 ****** ******
295-309	12	20	23	0	1	0	0	50	0	6	17	25	0	0	0	0	0	0	A -5.791**********
310-696	18	29	34	1	2	1	56	69	29	3	15	14	0	0	0	0	0	0	
UNKNOWN	285	27	14	3	0	0				422	38	22	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	725	744	729	20	15	13	28	20	18	875	906	938	17	12	7	19	13	7	
096-189	77	96	89	1	1	0	13	10	0	74	100	109	1	0	0	14	0	0	MEN
190-204	59	95	84	3	2	2	51	21	24	41	90	97	0	0	0	0	0	0	B -0.001 0.003 0.010
205-219	51	109	130	2	2	2	39	18	15	55	117	116	3	2	1	55	17	9	SE(B) 0.007 0.007 0.007
220-234	66	127	116	1	3	0	15	24	0	83	144	137	1	0	1	12	0	7	A -3.304 -4.487 -6.469
235-249	48	108	91	2	2	2	42	19	22	40	110	133	1	2	0	25	18	0	
250-264	39	71	85	2	2	3	51	28	35	35	82	98	0	0	0	0	0	0	WOMEN
265-279	27	46	50	0	2	2	0	43	40	41	76	77	1	3	1	24	39	13	B -0.000 0.013 0.010
280-294	27	39	32	1	0	1	37	0	31	31	58	54	0	2	2	0	34	37	SE(B) 0.007 0.005 0.005
295-309	14	21	18	0	1	1	0	48	56	24	33	36	0	1	1	0	30	28	A -3.995 -7.612 -7.458
310-696	10	19	22	0	0	0	0	0	0	38	66	68	1	2	1	26	30	15	
UNKNOWN	307	13	12	8	0	0				413	30	13	9	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	341	492	581	9	18	21	26	37	36	435	606	732	19	24	25	44	40	34	
096-189	51	89	105	1	3	3	20	34	29	16	31	38	1	1	3	63	32	79	MEN
190-204	32	64	57	0	1	2	0	16	35	19	40	49	0	2	0	0	50	0	B 0.012 0.007 0.006
205-219	29	72	95	1	4	0	34	56	0	22	49	65	1	1	0	45	20	0	SE(B) 0.008 0.006 0.005
220-234	39	61	70	2	1	5	51	16	71	47	97	96	1	4	5	21	41	52	A -6.270 -5.019 -4.608
235-249	30	50	81	0	2	5	0	40	62	28	68	88	1	3	3	36	44	34	
250-264	17	58	74	1	1	2	59	17	27	40	75	103	0	1	2	0	13	19	WOMEN
265-279	15	33	29	1	1	1	67	30	34	29	63	88	1	3	3	34	48	34	B -0.004 0.003 0.001
280-294	11	24	31	1	1	1	91	42	32	20	47	54	0	1	2	0	21	37	SE(B) 0.009 0.005 0.004
295-309	8	20	21	1	1	0	125	50	0	19	37	56	0	2	3	0	54	54	A -2.715 -4.017 -3.692
310-696	7	14	16	0	2	2	0	143	125	28	78	83	1	4	4	36	51	48	
UNKNOWN	102	7	2	1	1	0				167	21	12	13	2	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 9-3-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	0	0		12616	11	9		9044	21	23		2804	7	25	
096-189	1532	0	0	******	1380	1	7	3.6	1082	2	18	21.1	360	3	83	28.4
190-204	1002	0	0	******	1218	0	0	4.8	914	2	22	22.1	336	0	0	26.9
205-219	1206	0	0	******	1776	1	6	5.7	1136	2	18	22.8	366	0	0	26.2
220-234	1324	0	0	******	1838	0	0	6.9	1336	3	22	23.5	434	1	23	25.4
235-249	984	0	0	******	1570	1	6	8.3	1236	3	24	24.1	316	0	0	24.7
250-264	804	0	0	******	1426	1	7	9.8	1094	1	9	24.9	322	1	31	23.9
265-279	574	0	0	******	1018	3	29	11.8	776	6	77	25.6	248	0	0	23.2
280-294	412	0	0	******	692	3	43	14.2	518	2	39	26.4	210	0	0	22.5
295-309	254	0	0	******	414	0	0	17.0	326	0	0	27.1	90	1	111	21.9
310-696	358	0	0	******	562	1	18	36.7	358	0	0	28.9	104	1	96	20.8
UNKNOWN	684	0			722	0			268	0			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	0	0		15826	9	6		11884	21	18		3838	12	31	
096-189	2932	0	0	******	1498	1	7	4.2	476	2	42	15.4	106	0	0	12.6
190-204	1784	0	0	******	1452	0	0	4.7	608	0	0	16.1	156	1	64	15.6
205-219	1488	0	0	******	1798	1	6	5.1	914	3	33	16.6	272	0	0	17.5
220-234	1350	0	0	******	2198	2	9	5.4	1408	3	21	17.1	410	0	0	19.8
235-249	978	0	0	******	1940	1	5	5.8	1364	1	7	17.6	496	1	20	22.4
250-264	634	0	0	******	1650	0	0	6.2	1564	1	6	18.1	510	1	20	25.2
265-279	444	0	0	******	1394	0	0	6.7	1472	2	14	18.7	528	1	19	28.5
280-294	302	0	0	******	1030	1	10	7.2	1184	2	17	19.2	398	1	25	32.6
295-309	160	0	0	******	680	1	15	7.8	864	1	12	19.8	314	4	127	36.7
310-1124	182	0	0	******	1214	2	16	10.1	1592	6	38	21.5	600	2	33	49.8
UNKNOWN	1002	0			972	0			438	0			48	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.012	0.005	0.002	0.002	-0.002	0.008
SE(B)	******	******	0.003	0.004	0.005	0.005	0.009	0.006
A	*******	*******	-9.354	-7.921	-5.804	-6.135	-4.823	-7.428

TABLE 9-4-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	896	11	7	4	13	8	4	1095	1127	1083	6	4	4	5	4	4
067-119	18	26	17	0	0	0	0	0	0	181	275	242	1	0	0	6	0	0
120-124	13	43	25	0	0	0	0	0	0	112	245	188	2	0	0	18	0	0
125-129	24	61	30	0	0	0	0	0	0	98	161	170	0	1	1	0	6	6
130-134	61	125	94	0	0	1	0	0	11	87	196	209	1	2	1	11	10	5
135-139	93	125	109	2	3	1	22	24	9	95	106	121	0	0	0	0	0	0
140-144	104	149	135	3	1	0	29	7	0	47	44	71	1	0	0	21	0	0
145-149	69	107	193	1	1	0	14	9	0	5	20	28	0	0	1	0	0	36
150-154	84	103	111	0	1	1	0	10	9	8	15	14	0	0	0	0	0	0
155-159	44	58	99	1	0	1	23	0	10	2	8	6	0	0	0	0	0	0
160-216	53	51	65	1	1	0	19	20	0	5	3	1	0	0	0	0	0	0
UNKNOWN	302	34	18	3	0	0				455	54	33	1	1	1			
AGE 45-54 AT EXAM																		
TOTAL	725	744	729	20	15	13	28	20	18	875	906	938	17	12	7	19	13	7
067-119	11	30	15	0	0	0	0	0	0	76	173	152	0	1	2	0	6	13
120-124	21	44	29	0	0	0	0	0	0	87	193	160	2	2	0	23	10	0
125-129	20	41	29	0	0	1	0	0	34	66	130	146	1	0	1	15	0	7
130-134	42	106	94	2	1	0	48	9	0	75	181	188	2	4	1	27	22	5
135-139	65	101	87	1	2	2	15	20	23	68	92	132	0	2	1	0	22	8
140-144	78	124	137	4	4	3	51	32	22	33	49	63	1	0	0	30	0	0
145-149	50	102	125	3	3	2	60	29	16	16	24	48	1	1	0	63	42	0
150-154	46	88	83	0	2	2	0	23	24	11	13	19	0	1	1	0	77	53
155-159	31	44	62	1	1	1	32	23	16	3	5	8	0	0	1	0	0	125
160-216	35	44	53	1	2	2	29	45	38	1	3	4	0	0	0	0	0	0
UNKNOWN	326	20	15	8	0	0				439	43	18	10	1	0			
AGE 55-64 AT EXAM																		
TOTAL	341	492	581	9	18	21	26	37	36	435	606	732	19	24	25	44	40	34
067-119	22	30	24	0	0	0	0	0	0	43	115	98	0	2	4	0	17	41
120-124	12	24	25	0	1	0	0	42	0	47	106	114	0	5	3	0	47	26
125-129	12	34	33	0	0	1	0	0	30	40	92	106	1	4	3	25	43	28
130-134	34	76	53	1	2	0	29	26	0	50	131	179	2	4	4	40	31	22
135-139	33	75	83	0	3	5	0	40	60	38	59	86	0	0	3	0	0	35
140-144	48	92	99	0	1	3	0	11	30	23	46	62	0	3	2	0	65	32
145-149	15	46	106	1	2	2	67	43	19	7	12	42	1	3	5	143	250	119
150-154	26	51	65	3	4	2	115	78	31	5	9	15	1	0	0	200	0	0
155-159	11	32	53	1	4	3	91	125	57	2	6	10	0	1	1	0	167	100
160-216	16	17	36	1	0	5	63	0	139	1	1	2	0	0	0	0	0	0
UNKNOWN	112	15	4	2	1	0				179	29	18	14	2	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.027	0.031	*******
SE(B)	0.028	0.030	******
A	-8.183	-9.261	*******
WOMEN			
B	0.015	**********	
SE(B)	0.038	******	******
A	-6.690	**********	
AGE 45-54 AT EXAM			
MEN			
B	0.013	0.037	0.024
SE(B)	0.024	0.022	0.024
A	-5.338	-9.168	-7.462
WOMEN			
B	0.027	0.038	0.013
SE(B)	0.035	0.028	0.034
A	-7.684	-9.213	-6.575
AGE 55-64 AT EXAM			
MEN			
B	0.063	0.048	0.049
SE(B)	0.029	0.022	0.020
A	-12.621	-10.198	-10.411
WOMEN			
B	0.084	0.036	0.022
SE(B)	0.043	0.020	0.019
A	-15.061	-7.930	-6.209

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 9-4-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	0	0		12616	11	9		9044	21	23		2804	7	25	
067-119	138	0	0	******	148	0	0	2.6	226	0	0	4.4	50	0	0	21.7
120-124	206	0	0	******	268	0	0	3.3	194	0	0	6.4	26	1	385	22.2
125-129	282	0	0	******	294	0	0	3.9	246	0	0	7.9	52	0	0	22.8
130-134	694	0	0	******	848	0	0	4.8	674	2	30	10.2	126	0	0	23.3
135-139	896	0	0	******	1062	0	0	5.8	838	1	12	13.2	258	1	39	23.8
140-144	1312	0	0	******	1754	4	23	6.8	1388	1	7	16.5	370	1	27	24.4
145-149	1576	0	0	******	2132	0	0	8.1	1536	3	20	20.6	450	1	22	24.9
150-154	1296	0	0	******	1900	2	11	9.8	1370	4	29	26.3	562	1	18	25.5
155-159	1000	0	0	******	1544	1	6	11.7	1118	4	36	32.9	394	0	0	26.0
160-216	980	0	0	******	1872	4	21	16.7	1142	6	53	52.9	488	2	41	27.1
UNKNOWN	754	0			794	0			312	0			28	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	0	0		15826	9	6		11884	21	18		3838	12	31	
067-119	1966	0	0	******	1654	0	0	2.5	974	2	21	10.3	196	0	0	15.5
120-124	1586	0	0	******	1742	1	6	3.3	1072	2	19	12.8	240	1	42	19.7
125-129	1548	0	0	******	1966	1	5	3.8	1344	1	7	14.5	382	0	0	22.0
130-134	2040	0	0	******	2812	2	7	4.4	2358	5	21	16.5	682	1	15	24.9
135-139	1442	0	0	******	2548	0	0	5.1	1930	1	5	18.9	670	2	30	28.0
140-144	816	0	0	******	1802	1	6	5.9	1622	3	18	21.5	692	3	43	31.3
145-149	428	0	0	******	1242	1	8	6.7	1086	2	18	24.3	434	3	69	35.2
150-154	188	0	0	******	596	1	17	7.8	542	3	55	27.8	250	1	40	39.6
155-159	78	0	0	******	200	0	0	8.9	298	1	34	31.8	156	0	0	44.3
160-216	34	0	0	******	154	0	0	11.2	152	1	66	39.0	82	0	0	53.7
UNKNOWN	1130	0			1110	2			506	0			54	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.037	0.029	0.048	0.026	0.005	0.024
SE(B)	******	******	0.025	0.032	0.019	0.020	0.032	0.027
A	*******	*******	-11.788	-10.823	-12.516	-9.207	-5.961	-8.448

TABLE 9-5-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	896	11	7	4	13	8	4	1095	1127	1083	6	4	4	5	4	4
062-159	253	237	128	1	0	0	4	0	0	343	444	216	3	3	1	9	7	5
160-179	83	141	75	0	0	0	0	0	0	104	193	127	2	0	0	19	0	0
180-199	100	156	113	3	0	0	30	0	0	92	151	132	0	1	0	0	7	0
200-219	45	133	125	3	0	0	67	0	0	59	150	186	1	0	1	17	0	5
220-239	34	64	123	0	1	1	0	16	8	39	73	148	0	0	2	0	0	14
240-259	30	36	105	0	1	0	0	28	0	18	32	117	0	0	0	0	0	0
260-279	16	39	77	0	4	1	0	103	13	7	22	59	0	0	0	0	0	0
280-299	3	23	61	0	0	1	0	0	16	3	12	43	0	0	0	0	0	0
300-319	4	13	32	0	0	0	0	0	0	1	4	16	0	0	0	0	0	0
320-968	7	12	39	1	1	1	143	83	26	0	6	9	0	0	0	****	0	0
UNKNOWN	290	28	18	3	0	0				429	40	30	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	725	744	729	20	15	13	28	20	18	875	906	938	17	12	7	19	13	7
062-159	157	210	111	6	1	1	38	5	9	157	202	132	4	3	0	25	15	0
160-179	65	118	81	1	4	0	15	34	0	64	113	89	2	0	0	31	0	0
180-199	47	130	89	0	3	1	0	23	11	71	141	86	0	2	0	0	14	0
200-219	49	117	107	2	3	2	41	26	19	72	170	172	0	2	1	0	12	6
220-239	20	64	90	1	2	4	50	31	44	32	100	94	0	1	2	0	10	21
240-259	27	41	78	1	1	1	37	24	13	19	64	114	0	3	2	0	47	18
260-279	24	28	58	0	0	1	0	0	17	13	52	93	1	0	1	77	0	11
280-299	10	12	50	1	1	0	100	83	0	10	18	59	1	1	0	100	56	0
300-319	4	5	24	0	0	2	0	0	83	5	6	31	0	0	0	0	0	0
320-968	4	4	26	0	0	1	0	0	38	11	7	43	0	0	1	0	0	23
UNKNOWN	318	15	15	8	0	0				421	33	25	9	0	0			
AGE 55-64 AT EXAM																		
TOTAL	341	492	581	9	18	21	26	37	36	435	606	732	19	24	25	44	40	34
062-159	89	123	83	2	4	1	22	33	12	72	79	59	5	3	3	69	38	51
160-179	48	82	59	2	2	2	42	24	34	37	78	47	0	4	3	0	51	64
180-199	26	74	67	0	2	1	0	27	15	37	107	86	0	3	1	0	28	12
200-219	30	86	84	1	5	5	33	58	60	40	124	113	0	4	4	0	32	35
220-239	13	53	88	0	1	5	0	19	57	29	78	99	1	5	8	34	64	81
240-259	9	29	81	1	2	3	111	69	37	14	44	111	0	0	2	0	0	18
260-279	13	19	47	1	1	3	77	53	64	15	31	63	0	0	1	0	0	16
280-299	3	12	22	0	0	0	0	0	0	5	23	66	0	1	1	0	43	15
300-319	0	2	28	0	0	1	****	0	36	8	9	41	0	1	1	0	111	24
320-968	3	3	20	0	0	0	0	0	0	6	9	32	0	1	1	0	111	31
UNKNOWN	107	9	2	2	1	0				172	24	15	13	2	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.007	0.014	*******
SE(B)	0.004	0.004	******
A	-5.594	-7.953	*******
WOMEN			
B	-0.001	**********	
SE(B)	0.010	******	******
A	-4.548	**********	
AGE 45-54 AT EXAM			
MEN			
B	-0.002	0.004	0.008
SE(B)	0.006	0.004	0.005
A	-3.074	-4.638	-5.732
WOMEN			
B	-0.004	0.005	0.010
SE(B)	0.007	0.006	0.007
A	-3.337	-5.365	-7.146
AGE 55-64 AT EXAM			
MEN			
B	0.004	0.001	0.002
SE(B)	0.006	0.005	0.004
A	-4.148	-3.551	-3.733
WOMEN			
B	-0.030	0.001	-0.005
SE(B)	0.012	0.005	0.004
A	1.113	-3.500	-2.296

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 9-5-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	0	0		12616	11	9		9044	21	23		2804	7	25	
062-159	1332	0	0	******	1152	0	0	2.3	732	2	27	16.6	62	0	0	30.6
160-179	666	0	0	******	648	1	15	3.3	484	0	0	18.5	68	0	0	29.1
180-199	948	0	0	******	832	0	0	4.1	614	1	16	19.7	60	1	167	28.3
200-219	908	0	0	******	1034	0	0	5.0	794	2	25	21.0	212	1	47	27.3
220-239	886	0	0	******	1242	3	24	6.2	950	2	21	22.4	306	1	33	26.5
240-259	938	0	0	******	1648	2	12	7.6	1334	2	15	23.8	550	1	18	25.6
260-279	956	0	0	******	1622	0	0	9.3	1350	5	37	25.4	530	1	19	24.8
280-299	648	0	0	******	1414	0	0	11.3	1016	1	10	26.9	416	0	0	24.1
300-319	510	0	0	******	986	1	10	13.9	714	1	14	28.7	322	0	0	23.3
320-968	618	0	0	******	1258	4	32	25.1	764	5	65	32.9	260	2	77	22.2
UNKNOWN	724	0			780	0			292	0			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	0	0		15826	9	6		11884	21	18		3838	12	31	
062-159	2244	0	0	******	1324	2	15	8.9	604	2	33	14.7	30	0	0	46.9
160-179	986	0	0	******	764	1	13	7.9	458	0	0	15.6	48	0	0	42.4
180-199	1106	0	0	******	874	1	11	7.3	616	1	16	16.1	58	1	172	39.7
200-219	1296	0	0	******	1572	0	0	6.8	970	1	10	16.7	168	0	0	36.9
220-239	1242	0	0	******	1554	0	0	6.3	970	1	10	17.3	216	1	46	34.4
240-259	1186	0	0	******	1914	1	5	6.0	1272	4	31	17.9	388	1	26	32.4
260-279	890	0	0	******	2020	0	0	5.6	1606	1	6	18.5	644	2	31	30.5
280-299	612	0	0	******	1674	1	6	5.2	1488	4	27	19.1	640	3	47	28.6
300-319	364	0	0	******	1360	1	7	4.9	1444	3	21	19.8	710	0	0	27.0
320-968	264	0	0	******	1698	2	12	4.3	1976	4	20	21.1	874	3	34	24.0
UNKNOWN	1066	0			1072	0			480	0			62	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.010	-0.003	0.003	0.002	-0.002	-0.003
SE(B)	******	******	0.003	0.005	0.004	0.004	0.008	0.006
A	*******	*******	-9.042	-5.883	-6.128	-6.058	-4.866	-4.218

TABLE 9-6-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	896	11	7	4	13	8	4	1095	1127	1083	6	4	4	5	4	4
029-059	16	21	17	0	0	0	0	0	0	12	18	20	0	0	0	0	0	0
060-069	153	138	147	1	2	0	7	14	0	149	176	171	5	0	0	34	0	0
070-079	215	316	326	3	2	2	14	6	6	287	397	391	0	1	2	0	3	5
080-089	182	218	221	1	3	2	5	14	9	237	303	305	0	0	0	0	0	0
090-099	71	105	112	2	0	0	28	0	0	92	128	111	0	0	0	0	0	0
100-109	30	39	42	1	0	0	33	0	0	34	45	33	0	2	1	0	44	30
110-119	17	13	11	1	0	0	59	0	0	14	17	15	0	0	0	0	0	0
120-129	7	2	6	0	0	0	0	0	0	5	7	5	0	0	0	0	0	0
130-139	5	5	3	0	0	0	0	0	0	2	1	4	0	0	0	0	0	0
140-524	4	5	4	1	0	0	250	0	0	4	5	7	0	0	0	0	0	0
UNKNOWN	165	20	7	1	0	0				259	30	21	1	1	1			
AGE 45-54 AT EXAM																		
TOTAL	725	744	729	20	15	13	28	20	18	875	906	938	17	12	7	19	13	7
029-059	11	14	12	0	0	2	0	0	167	5	10	14	0	1	0	0	100	0
060-069	102	98	102	3	2	1	29	20	10	86	123	121	3	1	1	35	8	8
070-079	155	251	227	5	2	2	32	8	9	171	261	331	2	3	3	12	11	9
080-089	130	183	210	1	4	3	8	22	14	195	281	265	1	3	2	5	11	8
090-099	79	102	90	0	1	3	0	10	33	84	114	115	1	2	0	12	18	0
100-109	20	36	43	0	1	0	0	28	0	46	49	37	1	1	1	22	20	27
110-119	13	24	14	1	0	0	77	0	0	14	23	21	0	0	0	0	0	0
120-129	3	7	6	0	1	0	0	143	0	6	3	4	0	0	0	0	0	0
130-139	6	2	2	0	0	0	0	0	0	2	4	4	1	0	0	500	0	0
140-524	14	16	15	3	4	2	214	250	133	9	13	15	1	0	0	111	0	0
UNKNOWN	192	11	8	7	0	0				257	25	11	7	1	0			
AGE 55-64 AT EXAM																		
TOTAL	341	492	581	9	18	21	26	37	36	435	606	732	19	24	25	44	40	34
029-059	8	9	7	0	1	0	0	111	0	5	15	12	0	0	0	0	0	0
060-069	40	68	79	2	3	5	50	44	63	35	59	62	1	2	3	29	34	48
070-079	88	148	170	4	2	7	45	14	41	95	164	209	0	5	5	0	30	24
080-089	69	128	146	1	7	4	14	55	27	90	169	228	1	2	10	11	12	44
090-099	38	58	91	0	2	0	0	34	0	55	97	97	3	8	5	55	82	52
100-109	12	23	31	1	2	2	83	87	65	24	46	56	1	2	0	42	43	0
110-119	8	21	18	1	0	0	125	0	0	4	9	18	0	0	0	0	0	0
120-129	3	8	15	0	0	2	0	0	133	6	10	17	0	0	0	0	0	0
130-139	2	2	4	0	0	0	0	0	0	4	1	3	0	0	0	0	0	0
140-524	10	15	17	0	0	1	0	0	59	14	18	21	1	3	2	71	167	95
UNKNOWN	63	12	3	0	1	0				103	18	9	12	2	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.029	-0.020	*******
SE(B)	0.010	0.032	******
A	-6.747	-3.204	*******
WOMEN			
B	-0.131	**********	
SE(B)	0.049	******	******
A	4.347	**********	
AGE 45-54 AT EXAM			
MEN			
B	0.017	0.019	0.009
SE(B)	0.004	0.005	0.007
A	-5.319	-5.659	-4.811
WOMEN			
B	0.011	-0.006	-0.012
SE(B)	0.010	0.020	0.028
A	-5.014	-3.839	-3.911
AGE 55-64 AT EXAM			
MEN			
B	-0.006	-0.010	0.006
SE(B)	0.016	0.014	0.006
A	-2.886	-2.501	-3.775
WOMEN			
B	0.008	0.008	0.007
SE(B)	0.006	0.004	0.004
A	-4.543	-4.015	-3.954

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 9-6-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	0	0		12616	11	9		9044	21	23		2804	7	25	
029-059	298	0	0	******	350	1	29	6.4	252	0	0	19.0	70	0	0	30.5
060-069	1740	0	0	******	2272	0	0	7.0	1438	5	35	20.4	482	2	41	28.4
070-079	2980	0	0	******	4078	5	12	7.8	2774	5	18	21.7	794	2	25	26.8
080-089	2118	0	0	******	2882	1	3	8.6	2182	6	27	23.2	640	1	16	25.2
090-099	924	0	0	******	1370	1	7	9.5	1080	2	19	24.7	408	1	25	23.6
100-109	356	0	0	******	550	0	0	10.7	448	1	22	26.4	136	0	0	22.2
110-119	164	0	0	******	260	0	0	11.9	240	0	0	28.4	70	1	143	20.8
120-129	54	0	0	******	104	2	192	13.1	136	0	0	30.5	42	0	0	19.4
130-139	38	0	0	******	58	0	0	14.7	56	0	0	32.7	34	0	0	18.4
140-524	60	0	0	******	240	1	42	45.5	240	2	83	57.6	104	0	0	12.3
UNKNOWN	402	0			452	0			198	0			24	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	0	0		15826	9	6		11884	21	18		3838	12	31	
029-059	262	0	0	******	308	0	0	3.9	242	0	0	12.6	64	0	0	23.3
060-069	1876	0	0	******	2718	1	4	4.2	1518	2	13	13.9	454	4	88	24.9
070-079	3918	0	0	******	5272	1	2	4.4	3718	3	8	15.3	1214	1	8	26.4
080-089	2916	0	0	******	3964	3	8	4.7	3204	10	31	16.8	990	3	30	28.1
090-099	1014	0	0	******	1638	1	6	4.9	1460	2	14	18.5	518	1	19	29.8
100-109	336	0	0	******	640	1	16	5.2	640	0	0	20.5	248	0	0	31.7
110-119	140	0	0	******	300	0	0	5.6	262	1	38	22.6	82	0	0	33.9
120-129	52	0	0	******	104	0	0	5.9	196	0	0	25.0	96	1	104	36.0
130-139	20	0	0	******	40	0	0	6.3	62	0	0	27.8	32	0	0	38.0
140-524	58	0	0	******	172	0	0	10.0	284	3	106	79.4	100	1	100	65.9
UNKNOWN	664	0			670	2			298	0			40	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.011	0.006	0.007	0.010	-0.006	0.006
SE(B)	******	******	0.004	0.014	0.005	0.003	0.018	0.007
A	*******	*******	-7.270	-7.477	-5.942	-6.539	-4.743	-5.701

TABLE 9-7-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: URIC ACID (MG/LITER)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	896	11	7	4	13	8	4	1095	1127	1083	6	4	4	5	4	4
005-029	30	15	22	1	0	0	33	0	0	188	170	170	1	0	0	5	0	0
030-034	36	41	29	0	0	0	0	0	0	120	208	255	0	0	0	0	0	0
035-039	77	53	63	1	0	0	13	0	0	124	273	267	2	0	0	16	0	0
040-044	77	138	151	2	1	0	26	7	0	112	219	209	0	0	2	0	0	10
045-049	90	158	183	0	0	3	0	0	16	66	117	88	2	3	1	30	26	11
050-054	98	153	175	0	1	0	0	7	0	22	56	44	0	1	1	0	18	23
055-059	74	121	139	1	1	0	14	8	0	23	28	20	1	0	0	43	0	0
060-064	43	87	67	1	2	1	23	23	15	6	9	3	0	0	0	0	0	0
065-069	29	53	29	1	2	0	34	38	0	4	4	4	0	0	0	0	0	0
070-104	24	35	24	1	0	0	42	0	0	5	4	1	0	0	0	0	0	0
UNKNOWN	287	28	14	3	0	0				425	39	22	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	725	744	729	20	15	13	28	20	18	875	906	938	17	12	7	19	13	7
005-029	23	18	9	1	1	0	43	56	0	87	101	103	0	1	1	0	10	10
030-034	27	23	25	0	1	0	0	43	0	73	114	161	3	5	1	41	44	6
035-039	46	66	49	3	1	2	65	15	41	79	175	201	1	3	2	13	17	10
040-044	49	102	121	1	2	3	20	20	25	71	177	185	1	2	2	14	11	11
045-049	75	125	152	2	4	1	27	32	7	75	119	132	1	0	0	13	0	0
050-054	59	117	139	0	2	2	0	17	14	36	86	85	2	1	1	56	12	12
055-059	56	110	93	2	1	1	36	9	11	15	60	41	0	0	0	0	0	0
060-064	36	78	78	1	1	2	28	13	26	14	26	10	0	0	0	0	0	0
065-069	22	47	30	1	2	2	45	43	67	7	8	4	0	0	0	0	0	0
070-104	24	45	20	1	0	0	42	0	0	3	7	2	0	0	0	0	0	0
UNKNOWN	308	13	13	8	0	0				415	33	14	9	0	0			
AGE 55-64 AT EXAM																		
TOTAL	341	492	581	9	18	21	26	37	36	435	606	732	19	24	25	44	40	34
005-029	9	8	5	1	1	1	111	125	200	26	60	53	0	3	2	0	50	38
030-034	18	21	15	0	1	0	0	48	0	38	70	98	1	3	0	26	43	0
035-039	26	46	57	0	3	3	0	65	53	49	103	136	2	4	6	41	39	44
040-044	38	61	91	1	0	1	26	0	11	60	119	174	1	3	8	17	25	46
045-049	39	84	116	1	4	5	26	48	43	38	101	123	1	5	4	26	50	33
050-054	37	84	116	3	2	3	81	24	26	27	61	65	0	2	1	0	33	15
055-059	33	71	92	1	2	5	30	28	54	16	37	37	0	1	2	0	27	54
060-064	17	59	47	1	3	3	59	51	64	4	20	17	0	0	0	0	0	0
065-069	12	29	26	0	1	0	0	34	0	4	8	11	0	0	2	0	0	182
070-104	10	21	13	0	0	0	0	0	0	4	6	6	0	1	0	0	167	0
UNKNOWN	102	8	3	1	1	0				169	21	12	14	2	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.012	0.060	*******
SE(B)	0.028	0.031	******
A	-4.868	-8.065	*******
WOMEN			
B	0.044	**********	
SE(B)	0.032	******	******
A	-6.406	**********	
AGE 45-54 AT EXAM			
MEN			
B	-0.005	-0.026	0.010
SE(B)	0.023	0.023	0.028
A	-3.288	-2.575	-4.473
WOMEN			
B	0.017	-0.059	-0.021
SE(B)	0.032	0.032	0.043
A	-4.706	-1.986	-4.064
AGE 55-64 AT EXAM			
MEN			
B	0.006	-0.021	-0.001
SE(B)	0.030	0.023	0.023
A	-3.649	-2.270	-3.251
WOMEN			
B	-0.015	-0.004	0.018
SE(B)	0.044	0.021	0.021
A	-3.355	-3.081	-4.083

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 9-7-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: URIC ACID (MG/LITER)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	0	0		12616	11	9		9044	21	23		2804	7	25	
005-029	190	0	0	******	184	0	0	9.2	88	0	0	14.0	40	0	0	11.9
030-034	346	0	0	******	368	0	0	9.3	328	0	0	16.4	112	0	0	14.3
035-039	642	0	0	******	998	2	20	9.3	792	1	13	17.9	244	1	41	16.3
040-044	1408	0	0	******	1812	4	22	9.3	1422	3	21	20.0	516	1	19	19.2
045-049	1652	0	0	******	2426	0	0	9.3	1876	6	32	22.1	514	1	19	22.3
050-054	1588	0	0	******	2334	1	4	9.3	1542	4	26	24.5	472	0	0	25.7
055-059	1226	0	0	******	1688	1	6	9.3	1274	2	16	27.1	444	2	45	29.9
060-064	712	0	0	******	1044	2	19	9.3	814	4	49	30.0	240	2	83	34.6
065-069	406	0	0	******	532	0	0	9.3	364	1	27	33.3	118	0	0	39.8
070-104	266	0	0	******	458	1	22	9.3	258	0	0	40.9	78	0	0	53.1
UNKNOWN	698	0			772	0			286	0			26	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	0	0		15826	9	6		11884	21	18		3838	12	31	
005-029	1820	0	0	******	2144	0	0	1.3	1030	0	0	12.8	260	1	38	36.2
030-034	2294	0	0	******	2690	0	0	2.3	1598	2	13	14.8	462	2	43	33.3
035-039	2484	0	0	******	3412	2	6	3.6	2298	7	30	16.4	758	2	26	31.2
040-044	2008	0	0	******	3148	1	3	5.6	2696	3	11	18.3	848	1	12	29.1
045-049	888	0	0	******	1682	1	6	8.7	1852	5	27	20.4	712	3	42	27.2
050-054	382	0	0	******	958	4	42	13.7	1028	2	19	22.7	382	2	52	25.3
055-059	224	0	0	******	430	1	23	21.2	484	1	21	25.2	220	0	0	23.9
060-064	66	0	0	******	206	0	0	32.2	234	0	0	27.9	60	0	0	22.3
065-069	32	0	0	******	96	0	0	52.1	134	1	75	31.3	36	0	0	20.9
070-104	26	0	0	******	28	0	0	88.0	64	0	0	36.8	30	0	0	18.2
UNKNOWN	1032	0			1032	0			466	0			70	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.000	0.091	0.021	0.022	0.031	-0.014
SE(B)	******	******	0.029	0.031	0.021	0.022	0.036	0.034
A	*******	*******	-6.297	-10.596	-6.409	-6.531	-6.869	-4.557

TABLE 9-8-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	896	11	7	4	13	8	4	1095	1127	1083	6	4	4	5	4	4	
052-084	98	84	72	0	0	0	0	0	0	196	196	174	0	0	0	0	0	0	MEN
085-089	78	77	83	0	0	0	0	0	0	129	150	159	1	0	0	8	0	0	B 0.028 0.030*******
090-094	105	114	94	1	0	0	10	0	0	153	179	166	0	0	0	0	0	0	SE(B) 0.020 0.024 ******
095-099	122	137	142	1	0	0	8	0	0	153	155	142	1	1	1	7	6	7	A -7.261 -7.992*******
100-104	108	104	119	2	2	1	19	19	8	120	110	130	0	0	0	0	0	0	
105-109	112	105	117	2	3	2	18	29	17	96	92	84	0	0	0	0	0	0	WOMEN
110-114	88	100	107	3	1	1	34	10	9	64	60	60	1	0	0	16	0	0	B 0.031**********
115-119	58	63	58	2	0	0	34	0	0	45	57	45	0	0	0	0	0	0	SE(B) 0.015 ****** ******
120-124	40	42	43	0	0	0	0	0	0	29	39	37	0	1	0	0	26	0	A -8.527**********
125-226	51	51	56	0	1	0	0	20	0	99	76	76	3	2	3	30	26	39	
UNKNOWN	5	5	5	0	0	0				11	13	10	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	725	744	729	20	15	13	28	20	18	875	906	938	17	12	7	19	13	7	
052-084	57	65	63	1	1	0	18	15	0	69	82	93	1	1	0	14	12	0	MEN
085-089	50	50	52	1	0	0	20	0	0	55	74	89	0	0	0	0	0	0	B 0.038 0.029 0.034
090-094	102	84	82	0	2	2	0	24	24	82	89	109	2	1	1	24	11	9	SE(B) 0.016 0.018 0.019
095-099	97	118	93	1	1	1	10	8	11	123	120	141	2	3	3	16	25	21	A -7.524 -6.895 -7.633
100-104	111	108	116	6	3	2	54	28	17	126	128	121	4	3	0	32	23	0	
105-109	119	106	109	4	1	2	34	9	18	101	102	100	1	0	2	10	0	20	WOMEN
110-114	68	91	85	1	3	2	15	33	24	80	83	80	2	4	1	25	48	13	B 0.023 -0.013 -0.010
115-119	52	54	61	2	1	2	38	19	33	62	68	59	1	0	0	16	0	0	SE(B) 0.010 0.018 0.023
120-124	22	29	26	0	1	0	0	34	0	50	46	35	0	0	0	0	0	0	A -6.433 -2.927 -3.848
125-226	42	35	39	4	2	2	95	57	51	122	110	108	4	0	0	33	0	0	
UNKNOWN	5	4	3	0	0	0				5	4	3	0	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	341	492	581	9	18	21	26	37	36	435	606	732	19	24	25	44	40	34	
052-084	47	53	49	1	1	1	21	19	20	29	39	50	0	0	0	0	0	0	MEN
085-089	23	34	44	0	0	0	0	0	0	24	37	46	2	0	2	83	0	43	B 0.001 0.015 0.023
090-094	30	47	61	1	2	2	33	43	33	39	56	62	0	3	2	0	54	32	SE(B) 0.023 0.017 0.016
095-099	54	82	89	2	3	4	37	37	45	47	72	100	3	3	0	64	42	0	A -3.695 -4.847 -5.724
100-104	53	70	90	2	3	3	38	43	33	51	83	102	1	1	3	20	12	29	
105-109	34	63	84	1	2	3	29	32	36	39	57	85	1	0	3	26	0	35	WOMEN
110-114	39	57	75	1	3	2	26	53	27	47	64	57	1	3	1	21	47	18	B 0.020 0.027 0.027
115-119	22	41	37	0	2	3	0	49	81	43	44	63	2	3	5	47	68	79	SE(B) 0.010 0.009 0.009
120-124	20	23	25	0	2	2	0	87	80	29	50	46	4	4	3	138	80	65	A -5.416 -6.284 -6.422
125-226	15	19	26	1	0	1	67	0	38	85	103	118	5	7	6	59	68	51	
UNKNOWN	4	3	1	0	0	0				2	1	3	0	0	0				

'* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 9-8-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	0	0		12616	11	9		9044	21	23		2804	7	25	
052-084	754	0	0	******	980	1	10	7.3	766	1	13	11.1	326	1	31	21.1
085-089	740	0	0	******	934	0	0	7.8	606	0	0	14.0	228	0	0	22.5
090-094	998	0	0	******	1366	1	7	8.1	938	2	21	16.2	282	1	35	23.4
095-099	1440	0	0	******	1776	1	6	8.3	1406	3	21	18.7	410	0	0	24.3
100-104	1224	0	0	******	1904	1	5	8.7	1500	4	27	21.5	396	0	0	25.1
105-109	1190	0	0	******	1832	3	16	9.0	1312	0	0	24.7	390	4	103	26.0
110-114	1046	0	0	******	1448	2	14	9.3	1006	4	40	28.5	348	1	29	27.0
115-119	650	0	0	******	920	1	11	9.6	652	3	46	32.8	168	0	0	27.8
120-124	438	0	0	******	592	1	17	10.0	464	2	43	37.9	100	0	0	29.0
125-226	602	0	0	******	798	0	0	10.8	362	2	55	53.7	142	0	0	31.2
UNKNOWN	52	0			66	0			32	0			14	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	0	0		15826	9	6		11884	21	18		3838	12	31	
052-084	1916	0	0	******	1698	0	0	1.8	924	0	0	9.3	402	1	25	17.1
085-089	1534	0	0	******	1688	0	0	2.3	900	0	0	11.0	234	0	0	20.2
090-094	1732	0	0	******	1930	0	0	2.8	1158	2	17	12.1	350	1	29	22.2
095-099	1582	0	0	******	2324	1	4	3.3	1622	4	25	13.5	472	1	21	24.5
100-104	1226	0	0	******	1974	3	15	4.0	1530	4	26	14.8	474	0	0	27.0
105-109	842	0	0	******	1610	0	0	4.8	1336	2	15	16.4	454	0	0	29.6
110-114	634	0	0	******	1226	1	8	5.7	1158	1	9	18.1	326	1	31	32.7
115-119	502	0	0	******	910	0	0	6.9	848	1	12	20.1	292	3	103	36.0
120-124	326	0	0	******	630	0	0	8.2	632	3	47	22.2	218	3	138	39.5
125-226	850	0	0	******	1734	4	23	20.7	1732	4	23	34.1	606	2	33	54.5
UNKNOWN	112	0			102	0			44	0			10	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.007	0.036	0.029	0.020	0.007	0.019
SE(B)	******	******	0.022	0.010	0.016	0.009	0.027	0.014
A	*******	*******	-7.097	-10.819	-8.394	-7.889	-6.029	-7.201

TABLE 9-9-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	896	11	7	4	13	8	4	1095	1127	1083	6	4	4	5	4	4	
05-14	1	0	1	0	0	0	0	****	0	9	12	7	0	0	0	0	0	0	MEN
15-19	1	5	3	0	0	0	0	0	0	62	46	28	1	1	0	16	22	0	B -0.082 -0.084*******
20-24	12	13	10	0	0	0	0	0	0	234	190	191	3	0	1	13	0	5	SE(B) 0.046 0.054 ******
25-29	43	45	30	0	1	0	0	22	0	415	477	411	1	2	2	2	4	5	A -1.310 -1.702*******
30-34	157	128	135	6	1	2	38	8	15	285	310	332	0	0	0	0	0	0	
35-39	250	256	249	2	3	2	8	12	8	70	81	96	1	1	1	14	12	10	WOMEN
40-44	237	268	256	2	2	0	8	7	0	10	7	15	0	0	0	0	0	0	B -0.064**********
45-49	116	120	146	1	0	0	9	0	0	2	2	1	0	0	0	0	0	0	SE(B) 0.077 ****** ******
50-54	33	38	56	0	0	0	0	0	0	1	0	0	0	0	0	0	****	****	A -3.498**********
55-61	5	7	9	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****	
UNKNOWN	10	2	1	0	0	0				7	2	2	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	725	744	729	20	15	13	28	20	18	875	906	938	17	12	7	19	13	7	
05-14	1	1	0	0	0	0	0	0	****	20	29	21	2	2	0	100	69	0	MEN
15-19	3	5	5	0	0	0	0	0	0	105	120	93	4	0	0	38	0	0	B -0.055 -0.020 -0.042
20-24	25	17	18	2	0	0	80	0	0	330	304	310	6	4	3	18	13	10	SE(B) 0.034 0.041 0.044
25-29	76	73	86	3	2	2	39	27	23	274	313	338	2	4	3	7	13	9	A -1.629 -3.164 -2.539
30-34	172	202	195	5	6	5	29	30	26	124	123	152	3	2	1	24	16	7	
35-39	226	231	211	6	4	4	27	17	19	16	15	22	0	0	0	0	0	0	WOMEN
40-44	148	158	151	2	3	1	14	19	7	2	1	2	0	0	0	0	0	0	B -0.083 -0.020 0.024
45-49	54	44	49	2	0	1	37	0	20	0	0	0	0	0	0	****	****	****	SE(B) 0.049 0.056 0.076
50-54	15	11	11	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****	A -1.969 -3.832 -5.503
55-61	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****	
UNKNOWN	3	0	1	0	0	0				4	1	0	0	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	341	492	581	9	18	21	26	37	36	435	606	732	19	24	25	44	40	34	
05-14	1	3	4	0	0	0	0	0	0	26	47	51	1	1	1	38	21	20	MEN
15-19	1	13	6	0	1	0	0	77	0	83	137	154	3	6	6	36	44	39	B -0.019 -0.001 -0.034
20-24	19	35	42	1	1	2	53	29	48	207	255	312	10	11	8	48	43	26	SE(B) 0.058 0.037 0.034
25-29	70	87	110	2	5	5	29	57	45	85	140	168	3	4	8	35	29	48	A -2.952 -3.227 -2.181
30-34	106	142	170	1	4	8	9	28	47	24	24	41	2	2	2	83	83	49	
35-39	94	145	170	5	4	4	53	28	24	4	2	5	0	0	0	0	0	0	WOMEN
40-44	35	50	61	0	1	2	0	20	33	0	0	0	0	0	0	****	****	****	B 0.027 0.014 0.025
45-49	8	13	12	0	2	0	0	154	0	0	0	0	0	0	0	****	****	****	SE(B) 0.048 0.042 0.041
50-54	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****	A -3.675 -3.499 -3.884
55-61	0	0	0	0	0	0	****	****	****	0	0	0	0	0	0	****	****	****	
UNKNOWN	6	3	2	0	0	0				6	1	1	0	0	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 9-9-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	0	0		12616	11	9		9044	21	23		2804	7	25	
05-14	6	0	0	******	10	0	0	52.7	24	0	0	44.3	12	0	0	50.3
15-19	28	0	0	******	72	0	0	31.9	116	0	0	37.4	90	1	111	42.2
20-24	94	0	0	******	314	0	0	21.9	522	2	38	32.3	314	1	32	34.3
25-29	344	0	0	******	1136	2	18	15.6	1660	6	36	27.8	696	2	29	28.3
30-34	1360	0	0	******	2852	4	14	11.1	2568	5	19	24.0	970	2	21	23.2
35-39	2484	0	0	******	3854	3	8	7.7	2548	6	24	20.8	514	0	0	18.9
40-44	2640	0	0	******	2878	2	7	5.5	1186	1	8	18.0	160	1	63	15.7
45-49	1410	0	0	******	1124	0	0	3.9	302	1	33	15.4	30	0	0	12.7
50-54	612	0	0	******	308	0	0	2.7	80	0	0	13.2	4	0	0	10.8
55-61	130	0	0	******	60	0	0	1.9	10	0	0	11.7	2	0	0	8.8
UNKNOWN	26	0			8	0			28	0			12	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	0	0		15826	9	6		11884	21	18		3838	12	31	
05-14	56	0	0	******	212	0	0	15.9	520	4	77	35.4	414	1	24	17.4
15-19	360	0	0	******	1216	2	16	10.3	2200	3	14	23.8	1130	2	18	24.7
20-24	1840	0	0	******	4582	4	9	7.1	5038	7	14	17.7	1580	6	38	32.8
25-29	4404	0	0	******	6016	2	3	4.9	3200	3	9	13.0	614	3	49	44.1
30-34	3324	0	0	******	3152	0	0	3.4	804	4	50	9.6	96	0	0	59.4
35-39	1076	0	0	******	568	1	18	2.3	102	0	0	7.1	4	0	0	75.6
40-44	144	0	0	******	56	0	0	1.6	2	0	0	5.1	0	0	*****	******
45-49	16	0	0	******	8	0	0	1.1	2	0	0	3.4	0	0	*****	******
50-54	2	0	0	******	0	0	*****	******	0	0	*****	******	0	0	*****	******
55-61	2	0	0	******	0	0	*****	******	0	0	*****	******	0	0	*****	******
UNKNOWN	32	0			16	0			16	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	-0.073	-0.079	-0.031	-0.066	-0.042	0.064
SE(B)	******	******	0.044	0.066	0.034	0.043	0.062	0.062
A	*******	*******	-3.780	-4.809	-4.346	-4.205	-4.047	-6.413

TABLE 9-10-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	
AGE 35-44 AT EXAM																			
TOTAL	865	882	896	11	7	4	13	8	4	1095	1127	1083	6	4	4	5	4	4	
NONE	0	120	118	0	0	0	****	0	0	0	331	310	0	1	1	****	3	3	
000-009	0	255	274	0	0	0	****	0	0	0	448	442	0	1	1	****	2	2	
010-019	0	128	126	0	2	1	****	16	8	0	101	98	0	1	1	****	10	10	
020-029	0	77	75	0	0	0	****	0	0	0	61	55	0	0	0	****	0	0	
030-039	0	45	54	0	1	0	****	22	0	0	35	32	0	0	0	****	0	0	
040-049	0	46	45	0	0	0	****	0	0	0	15	13	0	0	0	****	0	0	
050-059	0	26	26	0	0	0	****	0	0	0	8	7	0	0	0	****	0	0	
060-069	0	24	22	0	1	1	****	42	45	0	21	22	0	0	0	****	0	0	
070-079	0	17	16	0	0	0	****	0	0	0	5	5	0	0	0	****	0	0	
080-457	0	60	58	0	3	2	****	50	34	0	10	9	0	0	0	****	0	0	
UNKNOWN	865	84	82	11	0	0				1095	92	90	6	1	1				
AGE 45-54 AT EXAM																			
TOTAL	725	744	729	20	15	13	28	20	18	875	906	938	17	12	7	19	13	7	
NONE	0	136	123	0	3	2	****	22	16	0	375	370	0	7	7	****	19	19	
000-009	0	204	198	0	3	2	****	15	10	0	313	338	0	4	0	****	13	0	
010-019	0	76	77	0	1	1	****	13	13	0	54	54	0	0	0	****	0	0	
020-029	0	55	61	0	0	0	****	0	0	0	35	39	0	1	0	****	29	0	
030-039	0	63	61	0	1	1	****	16	16	0	31	34	0	0	0	****	0	0	
040-049	0	35	35	0	1	1	****	29	29	0	16	17	0	0	0	****	0	0	
050-059	0	29	25	0	2	1	****	69	40	0	4	3	0	0	0	****	0	0	
060-069	0	24	31	0	0	0	****	0	0	0	7	10	0	0	0	****	0	0	
070-079	0	6	8	0	1	1	****	167	125	0	1	1	0	0	0	****	0	0	
080-457	0	50	43	0	1	2	****	20	47	0	7	7	0	0	0	****	0	0	
UNKNOWN	725	66	67	20	2	2				875	63	65	17	0	0				
AGE 55-64 AT EXAM																			
TOTAL	341	492	581	9	18	21	26	37	36	435	606	732	19	24	25	44	40	34	
NONE	0	117	132	0	4	4	****	34	30	0	302	358	0	15	14	****	50	39	
000-009	0	144	168	0	3	3	****	21	18	0	186	225	0	7	9	****	38	40	
010-019	0	38	53	0	1	2	****	26	38	0	18	32	0	0	0	****	0	0	
020-029	0	22	28	0	2	2	****	91	71	0	19	25	0	0	1	****	0	40	
030-039	0	36	42	0	2	3	****	56	71	0	19	21	0	0	0	****	0	0	
040-049	0	23	29	0	0	0	****	0	0	0	5	7	0	0	0	****	0	0	
050-059	0	12	17	0	1	2	****	83	118	0	2	4	0	0	0	****	0	0	
060-069	0	8	8	0	0	0	****	0	0	0	1	1	0	1	1	****	1000	1000	
070-079	0	11	12	0	1	1	****	91	83	0	2	1	0	0	0	****	0	0	
080-457	0	35	45	0	3	3	****	86	67	0	5	5	0	0	0	****	0	0	
UNKNOWN	341	46	47	9	1	1				435	47	53	19	1	0				

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B*******	0.013*******		
SE(B)******	0.004 ******		
A*******	-5.276*******		
WOMEN			
B**********			
SE(B)******	******	******	
A**********			
AGE 45-54 AT EXAM			
MEN			
B*******	0.003	0.011	
SE(B)******	0.007	0.005	
A*******	-4.000	-4.466	
WOMEN			
B*******	-0.034*******		
SE(B)******	0.040 ******		
A*******	-4.091*******		
AGE 55-64 AT EXAM			
MEN			
B*******	0.008	0.008	
SE(B)******	0.004	0.004	
A*******	-3.458	-3.475	
WOMEN			
B*******	-0.011	-0.005	
SE(B)******	0.021	0.017	
A*******	-3.101	-3.241	

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 9-10-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	0	0		12616	11	9		9044	21	23		2804	7	25	
NONE	1006	0	0	******	1808	0	0	6.1	1864	3	16	19.0	668	3	45	34.5
000-009	2288	0	0	******	3050	2	7	6.4	2288	3	13	19.4	774	2	26	33.0
010-019	1030	0	0	******	1298	0	0	7.2	774	0	0	20.7	238	1	42	27.9
020-029	604	0	0	******	844	0	0	8.1	508	3	59	22.0	182	0	0	23.2
030-039	436	0	0	******	892	1	11	9.0	624	2	32	23.2	212	0	0	20.3
040-049	386	0	0	******	612	1	16	10.2	468	3	64	25.0	124	0	0	16.6
050-059	160	0	0	******	274	2	73	11.4	192	1	52	26.5	72	0	0	14.1
060-069	266	0	0	******	518	0	0	12.6	380	1	26	28.0	114	1	88	12.2
070-079	140	0	0	******	258	1	39	14.5	160	0	0	30.1	54	0	0	10.0
080-457	570	0	0	******	998	4	40	35.8	642	2	31	41.1	234	0	0	5.3
UNKNOWN	2248	0			2064	0			1144	3			132	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	0	0		15826	9	6		11884	21	18		3838	12	31	
NONE	2524	0	0	******	4624	3	6	5.6	5074	11	22	18.5	2006	8	40	31.6
000-009	3736	0	0	******	5380	2	4	5.1	3572	8	22	19.0	1060	1	9	30.8
010-019	852	0	0	******	1052	1	10	3.4	476	0	0	20.9	164	1	61	27.5
020-029	458	0	0	******	632	0	0	2.3	392	0	0	22.5	150	1	67	24.9
030-039	384	0	0	******	738	0	0	1.7	492	0	0	24.4	152	0	0	22.6
040-049	136	0	0	******	268	0	0	1.1	180	0	0	27.1	60	0	0	20.1
050-059	66	0	0	******	88	0	0	0.8	62	0	0	29.3	14	0	0	17.9
060-069	204	0	0	******	324	0	0	0.5	116	1	86	31.7	24	0	0	16.2
070-079	46	0	0	******	94	0	0	0.3	34	0	0	35.9	16	0	0	14.0
080-457	94	0	0	******	188	0	0	0.1	128	1	78	47.8	12	0	0	10.1
UNKNOWN	2756	0			2438	3			1358	0			180	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.012	-0.038	0.006	0.009	-0.017	-0.011
SE(B)	******	******	0.003	0.050	0.005	0.009	0.019	0.030
A	*******	*******	-6.702	-6.793	-5.568	-5.595	-4.968	-5.056

TABLE 9-11-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	896	11	7	4	13	8	4	1095	1127	1083	6	4	4	5	4	4	
																			MEN
NONE	244	246	258	1	0	0	4	0	0	533	523	495	4	2	2	8	4	4	B 0.487 0.672 0.975
UNDER 20	147	145	140	3	2	1	20	14	7	358	378	372	2	2	2	6	5	5	SE(B) 0.300 0.413 0.652
20	254	257	263	1	1	0	4	4	0	152	173	163	0	0	0	0	0	0	A -5.228 -6.122 -7.426
OVER 20	216	228	230	6	4	3	28	18	13	44	47	47	0	0	0	0	0	0	
																			WOMEN
UNKNOWN	4	6	5	0	0	0				8	6	6	0	0	0				B -0.769 -0.440 -0.454
																			SE(B) 0.694 0.703 0.706
																			A -4.803 -5.356 -5.305
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	725	744	729	20	15	13	28	20	18	875	906	938	17	12	7	19	13	7	
																			MEN
NONE	277	267	260	3	1	1	11	4	4	598	589	572	13	9	7	22	15	12	B 0.341 0.446 0.556
UNDER 20	115	115	113	4	5	3	35	43	27	178	206	235	1	1	0	6	5	0	SE(B) 0.195 0.236 0.264
20	170	188	181	8	3	3	47	16	17	70	79	97	3	2	0	43	25	0	A -4.066 -4.602 -4.955
OVER 20	155	165	167	5	6	6	32	36	36	23	29	31	0	0	0	0	0	0	
																			WOMEN
UNKNOWN	8	9	8	0	0	0				6	3	3	0	0	0				B -0.063 -0.148*******
																			SE(B) 0.338 0.404 ******
																			A -3.887 -4.240*******
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	341	492	581	9	18	21	26	37	36	435	606	732	19	24	25	44	40	34	
																			MEN
NONE	162	234	253	2	5	5	12	21	20	346	465	541	17	21	19	49	45	35	B 0.588 0.467 0.413
UNDER 20	66	92	115	2	2	4	30	22	35	63	96	130	2	2	3	32	21	23	SE(B) 0.304 0.210 0.196
20	73	104	132	2	7	7	27	67	53	16	30	41	0	1	3	0	33	73	A -4.361 -3.850 -3.819
OVER 20	37	60	79	3	4	5	81	67	63	8	11	16	0	0	0	0	0	0	
																			WOMEN
UNKNOWN	3	2	2	0	0	0				2	4	4	0	0	0				B -0.761 -0.499 0.006
																			SE(B) 0.651 0.451 0.294
																			A -2.946 -3.065 -3.339

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 9-11-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	0	0		12616	11	9		9044	21	23		2804	7	25	
NONE	2858	0	0	******	4684	1	2	3.4	4330	8	18	17.1	1620	3	19	13.9
UNDER 20	1418	0	0	******	1812	2	11	5.9	1502	2	13	22.2	548	0	0	24.2
20	2478	0	0	******	2992	3	10	10.1	1766	6	34	28.7	374	2	53	42.0
OVER 20	2328	0	0	******	3056	5	16	17.3	1394	5	36	37.1	254	2	79	72.6
UNKNOWN	52	0			72	0			52	0			8	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	0	0		15826	9	6		11884	21	18		3838	12	31	
NONE	5178	0	0	******	9020	7	8	7.5	8518	17	20	18.2	3048	11	36	36.5
UNDER 20	3604	0	0	******	3732	1	3	4.3	2066	0	0	17.0	548	1	18	14.2
20	1776	0	0	******	2168	1	5	2.4	862	4	46	15.9	162	0	0	5.5
OVER 20	640	0	0	******	844	0	0	1.4	394	0	0	14.8	62	0	0	2.2
UNKNOWN	58	0			62	0			44	0			18	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.540	-0.563	0.259	-0.070	0.554	-0.945
SE(B)	******	******	0.281	0.516	0.183	0.299	0.319	0.923
A	*******	*******	-7.281	-6.501	-5.672	-5.610	-5.879	-4.913

TA8LE 9-12-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, 8Y SEX, AGE, AND LEVEL CF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: AL8UMIN IN URINE

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUM8ER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	896	11	7	4	13	8	4	1095	1127	1083	6	4	4	5	4	4	
																			MEN
NO	823	868	877	10	7	4	12	8	5	992	1082	1033	5	4	3	5	4	3	B**********
POSSI8LE	2	0	3	0	0	0	0	****	0	7	1	5	0	0	1	0	0	200	SE(B)****** ****** ******
OEFINITE	21	7	12	0	0	0	0	0	0	72	40	42	1	0	0	14	0	0	A**********
UNKNOWN	19	7	4	1	0	0				24	4	3	0	0	0				WOMEN
																			B 0.499******* 0.619
																			SE(8) 0.556 ****** 0.767
																			A -5.291******* -5.689
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	725	744	729	20	15	13	28	20	18	875	906	938	17	12	7	19	13	7	
																			MEN
NO	692	733	719	19	15	13	27	20	18	801	867	892	14	12	7	17	14	8	8**********
POSSIBLE	1	0	0	0	0	0	0	****	****	7	4	6	1	0	0	143	0	0	SE(B)****** ****** ******
OEFINITE	23	9	10	0	0	0	0	0	0	57	33	39	2	0	0	35	0	0	A**********
UNKNOWN	9	2	0	1	0	0				10	2	1	0	0	0				WOMEN
																			B 0.439**********
																			SE(B) 0.353 ****** ******
																			A -4.000**********
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	341	492	581	9	18	21	26	37	36	435	606	732	19	24	25	44	40	34	
																			MEN
NO	320	474	557	8	18	20	25	38	36	403	584	700	17	23	24	42	39	34	8 0.579******* 0.219
POSSI8LE	1	1	6	0	0	0	0	0	0	0	0	2	0	0	0	****	****	0	SE(B) 0.553 ****** 0.546
DEFINITE	13	14	16	1	0	1	77	0	63	24	18	27	2	1	1	83	56	37	A -3.666******* -3.297
UNKNOWN	7	3	2	0	0	0				8	4	3	0	0	0				WOMEN
																			B 0.362 0.181 0.022
																			SE(8) 0.390 0.525 0.524
																			A -3.123 -3.194 -3.340

* PERIOO OF O8SERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, ANO 12 YEARS AFTER EXAM 3.

TABLE 9-12-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: ALBUMIN IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	0	0		12616	11	9		9044	21	23		2804	7	25	
NO	8886	0	0	******	12324	11	9	******	8606	19	22	21.9	2616	4	15	15.0
POSSIBLE	20	0	0	******	42	0	0	******	82	0	0	35.5	26	0	0	53.6
DEFINITE	152	0	0	******	214	0	0	******	322	2	62	57.6	156	3	192	187.8
UNKNOWN	76	0			36	0			34	0			6	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	0	0		15826	9	6		11884	21	18		3838	12	31	
NO	10640	0	0	******	15102	8	5	5.3	11352	20	18	18.0	3652	11	30	29.9
POSSIBLE	90	0	0	******	134	0	0	9.4	116	1	86	14.1	38	0	0	45.2
DEFINITE	450	0	0	******	552	1	18	17.0	376	0	0	11.1	134	1	75	68.2
UNKNOWN	76	0			38	0			40	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	*******	0.587	0.487	-0.241	1.281	0.417
SE(B)	******	******	******	0.541	0.381	0.749	0.390	0.538
A	*******	*******	*******	-6.857	-5.426	-5.624	-5.805	-5.114

TABLE 9-13-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: SUGAR IN URINE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	896	11	7	4	13	8	4	1095	1127	1083	6	4	4	5	4	4	
																			MEN
NO	825	871	886	8	7	4	10	8	5	1059	1119	1075	6	4	4	6	4	4	B 1.447**********
POSSIBLE	13	2	0	1	0	0	77	0	****	7	0	0	0	0	0	0	****	****	SE(B) 0.501 ****** ******
DEFINITE	8	2	6	1	0	0	125	0	0	5	4	5	0	0	0	0	0	0	A -4.597**********
UNKNOWN	15	7	4	1	0	0				24	4	3	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	725	744	729	20	15	13	28	20	18	875	906	938	17	12	7	19	13	7	
																			MEN
NO	685	718	705	15	13	12	22	18	17	845	894	924	17	12	6	20	13	6	B 1.352 1.069 0.686
POSSIBLE	20	11	11	1	0	0	50	0	0	11	1	2	0	0	1	0	0	500	SE(B) 0.355 0.420 0.564
DEFINITE	11	13	13	3	2	1	273	154	77	9	9	11	0	0	0	0	0	0	A -3.819 -4.015 -4.072
UNKNOWN	9	2	0	1	0	0				10	2	1	0	0	0				WOMEN
																			B********** 0.935
																			SE(B)****** ****** 0.757
																			A********** -4.953
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	341	492	581	9	18	21	26	37	36	435	606	732	19	24	25	44	40	34	
																			MEN
NO	319	476	559	8	17	20	25	36	36	413	586	716	17	22	23	41	38	32	B 0.386 0.467 0.245
POSSIBLE	9	2	4	1	0	0	111	0	0	5	3	0	0	0	0	0	0	****	SE(B) 0.825 0.545 0.540
DEFINITE	6	11	16	0	1	1	0	91	63	9	13	13	2	2	2	222	154	154	A -3.619 -3.299 -3.299
UNKNOWN	7	3	2	0	0	0				8	4	3	0	0	0				WOMEN
																			B 0.877 0.738 0.850
																			SE(B) 0.426 0.403 0.399
																			A -3.162 -3.249 -3.406

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 9-13-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: SUGAR IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	0	0		12616	11	9		9044	21	23		2804	7	25	
NO	8946	0	0	******	12264	10	8	8.1	8698	19	22	21.7	2674	7	26	******
POSSIBLE	48	0	0	******	116	0	0	18.9	54	0	0	40.0	14	0	0	******
DEFINITE	72	0	0	******	202	1	50	44.1	258	2	78	73.3	110	0	0	******
UNKNOWN	68	0			34	0			34	0			6	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	0	0		15826	9	6		11884	21	18		3838	12	31	
NO	11098	0	0	******	15602	8	5	5.1	11630	19	16	16.3	3748	12	32	******
POSSIBLE	20	0	0	******	48	0	0	18.7	46	0	0	42.6	12	0	0	******
DEFINITE	62	0	0	******	140	1	71	68.2	172	2	116	110.6	64	0	0	******
UNKNOWN	76	0			36	0			36	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	0.853	1.303	0.614	0.968	*******	*******
SE(B)	******	******	0.543	0.540	0.380	0.381	******	******
A	*******	*******	-6.428	-6.887	-5.435	-5.726	*******	*******

TABLE 9-14-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	896	11	7	4	13	8	4	1095	1127	1083	6	4	4	5	4	4	
																			MEN
NO	771	780	815	7	7	4	9	9	5	953	1017	1013	5	3	4	5	3	4	B 0.516**********
POSSIBLE	26	35	43	2	0	0	77	0	0	56	39	36	0	1	0	0	26	0	SE(B) 0.414 ****** ******
DEFINITE	64	65	37	1	0	0	16	0	0	82	70	33	1	0	0	12	0	0	A -4.586**********
UNKNOWN	4	2	1	1	0	0				4	1	1	0	0	0				WOMEN
																			B 0.335 0.284*******
																			SE(B) 0.586 0.799 ******
																			A -5.285 -5.694*******
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	725	744	729	20	15	13	28	20	18	875	906	938	17	12	7	19	13	7	
																			MEN
NO	575	645	643	12	13	10	21	20	16	626	685	760	9	5	4	14	7	5	B 0.445 0.153 0.378
POSSIBLE	23	40	42	1	0	2	43	0	48	60	79	96	1	2	0	17	25	0	SE(B) 0.252 0.412 0.423
DEFINITE	123	59	44	6	2	1	49	34	23	183	142	82	7	5	3	38	35	37	A -3.838 -3.920 -4.098
UNKNOWN	4	0	0	1	0	0				6	0	0	0	0	0				WOMEN
																			B 0.498 0.802 0.954
																			SE(B) 0.258 0.310 0.421
																			A -4.249 -4.850 -5.393
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	341	492	581	9	18	21	26	37	36	435	606	732	19	24	25	44	40	34	
																			MEN
NO	245	373	471	6	14	14	24	38	30	252	364	470	7	10	11	28	27	23	B 0.205 -0.124 0.447
POSSIBLE	16	44	49	0	2	3	0	45	61	34	80	115	2	1	5	59	13	43	SE(B) 0.370 0.348 0.276
DEFINITE	79	75	61	3	2	4	38	27	66	145	162	147	10	13	9	69	80	61	A -3.725 -3.226 -3.460
UNKNOWN	1	0	0	0	0	0				4	0	0	0	0	0				WOMEN
																			B 0.472 0.577 0.504
																			SE(B) 0.249 0.228 0.227
																			A -3.522 -3.697 -3.708

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 9-14-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	0	0		12616	11	9		9044	21	23		2804	7	25	
NO	8272	0	0	******	10690	9	8	7.9	6912	12	17	18.2	1814	3	17	15.8
POSSIBLE	386	0	0	******	926	0	0	11.0	948	4	42	29.4	438	1	23	28.7
DEFINITE	456	0	0	******	988	2	20	15.1	1182	5	42	47.4	552	3	54	52.0
UNKNOWN	20	0			12	0			2	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	0	0		15826	9	6		11884	21	18		3838	12	31	
NO	10340	0	0	******	12834	8	6	6.4	7512	8	11	9.4	1840	2	11	8.9
POSSIBLE	398	0	0	******	1380	1	7	3.3	1940	2	10	19.8	710	1	14	24.4
DEFINITE	502	0	0	******	1600	0	0	1.7	2424	11	45	41.6	1288	9	70	67.0
UNKNOWN	16	0			12	0			8	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.322	-0.667	0.481	0.745	0.599	1.017
SE(B)	******	******	0.426	0.836	0.252	0.245	0.419	0.403
A	*******	*******	-6.443	-6.653	-5.610	-6.272	-5.752	-6.333

TABLE 9-15-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	896	11	7	4	13	8	4	1095	1127	1083	6	4	4	5	4	4	
																			MEN
NO	840	847	864	9	4	2	11	5	2	1085	1108	1064	6	4	4	6	4	4	B 1.022 1.633 1.976
POSSIBLE	16	27	27	2	3	2	125	111	74	7	15	15	0	0	0	0	0	0	SE(B) 0.586 0.534 0.679
DEFINITE	9	8	5	0	0	0	0	0	0	3	4	4	0	0	0	0	0	0	A -4.445 -5.108 -5.765
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	725	744	729	20	15	13	28	20	18	875	906	938	17	12	7	19	13	7	
																			MEN
NO	691	696	679	17	12	10	25	17	15	844	862	902	15	11	7	18	13	8	B 0.865 0.814 0.780
POSSIBLE	18	23	28	1	1	2	56	43	71	15	30	25	2	1	0	133	33	0	SE(B) 0.380 0.380 0.426
DEFINITE	16	25	22	2	2	1	125	80	45	16	14	11	0	0	0	0	0	0	A -3.681 -4.038 -4.150
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 0.491 0.187*******
																			SE(B) 0.562 0.839 ******
																			A -3.961 -4.324*******
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	341	492	581	9	18	21	26	37	36	435	606	732	19	24	25	44	40	34	
																			MEN
NO	309	432	515	7	14	14	23	32	27	419	548	648	15	14	15	36	26	23	B 0.292 0.564 0.805
POSSIBLE	15	31	30	2	1	3	133	32	100	7	33	46	2	5	5	286	152	109	SE(B) 0.584 0.336 0.278
DEFINITE	17	29	36	0	3	4	0	103	111	9	25	38	2	5	5	222	200	132	A -3.660 -3.422 -3.536
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 1.178 1.214 1.002
																			SE(B) 0.378 0.262 0.251
																			A -3.252 -3.566 -3.675

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 9-15-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	0	0		12616	11	9		9044	21	23		2804	7	25	
NO	8800	0	0	******	11808	8	7	7.7	8044	10	12	13.3	2348	6	26	26.8
POSSIBLE	262	0	0	******	534	3	56	17.1	552	4	72	48.1	236	1	42	18.5
DEFINITE	72	0	0	******	274	0	0	38.1	448	7	156	171.3	220	0	0	12.8
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	0	0		15826	9	6		11884	21	18		3838	12	31	
NO	11062	0	0	******	15296	9	6	******	10784	11	10	10.3	3288	5	15	16.9
POSSIBLE	138	0	0	******	384	0	0	******	676	3	44	41.8	318	3	94	58.4
DEFINITE	56	0	0	******	146	0	0	******	424	7	165	167.1	232	4	172	197.1
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.805	*******	1.295	1.410	-0.370	1.245
SE(B)	******	******	0.486	******	0.239	0.242	0.840	0.319
A	*******	*******	-6.480	*******	-5.929	-6.185	-5.225	-5.684

TABLE 9-16-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	896	11	7	4	13	8	4	1095	1127	1083	6	4	4	5	4	4	
																			MEN
NO	845	861	870	10	7	4	12	8	5	1077	1111	1070	6	4	4	6	4	4	B 1.480**********
YES	20	21	26	1	0	0	50	0	0	18	16	13	0	0	0	0	0	0	SE(B) 1.074 ****** ******
																			A -4.425**********
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	725	744	729	20	15	13	28	20	18	875	906	938	17	12	7	19	13	7	
																			MEN
NO	700	726	704	18	13	13	26	18	18	854	869	905	14	11	6	16	13	7	B 1.192 1.925*******
YES	25	18	25	2	2	0	80	111	0	21	37	33	3	1	1	143	27	30	SE(B) 0.775 0.801 ******
																			A -3.635 -4.005*******
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 2.303 0.773 1.544
																			SE(B) 0.679 1.058 1.095
																			A -4.094 -4.357 -5.010
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	341	492	581	9	18	21	26	37	36	435	606	732	19	24	25	44	40	34	
																			MEN
NO	329	468	547	8	18	19	24	38	35	421	573	683	17	19	20	40	33	29	B 1.294******* 0.552
YES	12	24	34	1	0	2	83	0	59	14	33	49	2	5	5	143	152	102	SE(B) 1.104 ****** 0.765
																			A -3.692******* -3.325
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 1.376 1.650 1.326
																			SE(B) 0.803 0.539 0.524
																			A -3.168 -3.373 -3.501

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 9-16-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	0	0		12616	11	9		9044	21	23		2804	7	25	
NO	8886	0	0	0.0	12046	9	7	7.5	8472	18	21	21.2	2542	7	28	27.5
YES	248	0	0	0.0	570	2	35	35.1	572	3	52	52.4	262	0	0	0.0
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	0	0		15826	9	6		11884	21	18		3838	12	31	
NO	11054	0	0	0.0	15278	8	5	5.2	11182	18	16	16.1	3506	9	26	25.7
YES	202	0	0	0.0	548	1	18	18.2	702	3	43	42.7	332	3	90	90.4
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	1.552	1.251	0.910	0.982	*******	1.272
SE(B)	******	******	0.784	1.062	0.627	0.626	******	0.672
A	*******	*******	-6.505	-6.861	-5.457	-5.735	*******	-5.267

TABLE 9-17-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: DIABETES MELLITUS

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	896	11	7	4	13	8	4	1095	1127	1083	6	4	4	5	4	4	
																			MEN
NO	853	872	886	10	7	4	12	8	5	1087	1121	1077	6	4	4	6	4	4	B 2.036**********
YES	12	10	10	1	0	0	83	0	0	8	6	6	0	0	0	0	0	0	SE(B) 1.092 ****** ******
																			A -4.434**********
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	725	744	729	20	15	13	28	20	18	875	906	938	17	12	7	19	13	7	
																			MEN
NO	703	719	706	17	11	10	24	15	14	854	891	915	15	12	6	18	13	7	B 1.852 2.506 2.346
YES	22	25	23	3	4	3	136	160	130	21	15	23	2	0	1	95	0	43	SE(B) 0.668 0.624 0.696
																			A -3.698 -4.165 -4.243
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 1.773******* 1.930
																			SE(B) 0.788 ****** 1.101
																			A -4.024******* -5.021
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	341	492	581	9	18	21	26	37	36	435	606	732	19	24	25	44	40	34	
																			MEN
NO	326	472	556	9	17	19	28	36	34	422	580	703	17	20	23	40	34	33	B******* 0.343 0.899
YES	15	20	25	0	1	2	0	50	80	13	26	29	2	4	2	154	154	69	SE(B)****** 1.055 0.773
																			A******* -3.287 -3.342
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 1.466 1.627 0.784
																			SE(B) 0.808 0.589 0.763
																			A -3.171 -3.332 -3.387

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 9-17-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: DIABETES MELLITUS

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	0	0		12616	11	9		9044	21	23		2804	7	25	
NO	9038	0	0	0.0	12250	9	7	7.3	8592	19	22	22.1	2610	7	27	26.8
YES	96	0	0	0.0	366	2	55	54.6	452	2	44	44.2	194	0	0	0.0
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	0	0		15826	9	6		11884	21	18		3838	12	31	
NO	11178	0	0	0.0	15532	9	6	5.8	11434	18	16	15.7	3608	10	28	27.7
YES	78	0	0	0.0	294	0	0	0.0	450	3	67	66.7	230	2	87	87.0
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	2.016	*******	0.698	1.454	*******	1.155
SE(B)	******	******	0.785	******	0.747	0.627	******	0.781
A	*******	*******	-6.521	*******	-5.417	-5.758	*******	-5.190

TABLE 9-18-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: HYPERTENSION

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	896	11	7	4	13	8	4	1095	1127	1083	6	4	4	5	4	4	
																			MEN
NO	381	507	600	1	2	0	3	4	0	709	874	871	1	2	2	1	2	2	B 1.064 0.777 1.819
BORDER	355	266	212	6	3	2	17	11	9	291	187	169	3	1	1	10	5	6	SE(B) 0.427 0.476 0.718
DEFINITE	129	109	84	4	2	2	31	18	24	95	66	43	2	1	1	21	15	23	A -5.402 -5.421 -7.131
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 1.280 0.942 1.145
																			SE(B) 0.522 0.614 0.626
																			A -6.196 -6.096 -6.116
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	725	744	729	20	15	13	28	20	18	875	906	938	17	12	7	19	13	7	
																			MEN
NO	289	373	397	4	1	2	14	3	5	310	418	513	2	3	3	6	7	6	B 1.199 1.859 1.287
BORDER	267	241	220	2	3	4	7	12	18	361	304	260	4	3	1	11	10	4	SE(B) 0.339 0.454 0.381
DEFINITE	169	130	112	14	11	7	83	85	63	204	184	165	11	6	3	54	33	18	A -4.969 -6.118 -5.281
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 1.262 0.820 0.572
																			SE(B) 0.386 0.376 0.457
																			A -5.456 -5.124 -5.353
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	341	492	581	9	18	21	26	37	36	435	606	732	19	24	25	44	40	34	
																			MEN
NO	123	219	298	0	1	2	0	5	7	102	161	256	1	1	2	10	6	8	B 0.746 1.529 1.329
BORDER	129	164	172	6	5	7	47	30	41	177	232	250	4	4	2	23	17	8	SE(B) 0.460 0.389 0.315
DEFINITE	89	109	111	3	12	12	34	110	108	156	213	226	14	19	21	90	89	93	A -4.440 -5.120 -4.708
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 1.298 1.554 1.694
																			SE(B) 0.432 0.419 0.406
																			A -4.935 -5.450 -5.730

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 9-18-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: HYPERTENSION

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	0	0		12616	11	9		9044	21	23		2804	7	25	
NO	5392	0	0	******	6530	3	5	4.1	4132	1	2	3.0	1128	1	9	11.3
BORDER	2692	0	0	******	3892	3	8	9.4	2918	5	17	15.4	1022	3	29	23.9
DEFINITE	1050	0	0	******	2194	5	23	21.3	1994	15	75	76.5	654	3	46	50.1
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	0	0		15826	9	6		11884	21	18		3838	12	31	
NO	8554	0	0	******	8756	2	2	2.4	4186	2	5	4.9	892	0	0	6.1
BORDER	2036	0	0	******	4610	3	7	6.2	4290	6	14	13.7	1516	4	26	19.2
DEFINITE	666	0	0	******	2460	4	16	16.5	3408	13	38	38.3	1430	8	56	59.8
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	0.826	0.975	1.619	1.031	0.747	1.145
SE(B)	******	******	0.379	0.420	0.374	0.328	0.502	0.517
A	*******	*******	-7.105	-7.660	-7.402	-6.925	-6.086	-6.704

TABLE 9-19-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: GLUCOSE INTOLERANCE

	- MEN -									- WOMEN -											
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																					
TOTAL	865	882	896	11	7	4	13	8	4	1095	1127	1083	6	4	4	5	4	4			
NO	826	863	877	9	7	4	11	8	5	1072	1111	1064	6	4	4	6	4	4			
YES	39	19	19	2	0	0	51	0	0	23	16	19	0	0	0	0	0	0			
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0						
AGE 35-44 AT EXAM																					
MEN																					
B																			1.591	**********	
SE(B)																			0.800	******	******
A																			-4.508	**********	
WOMEN																					
B																			**********		
SE(B)																			******	******	******
A																			**********		
AGE 45-54 AT EXAM																					
TOTAL	725	744	729	20	15	13	28	20	18	875	906	938	17	12	7	19	13	7			
NO	676	694	687	16	10	10	24	14	15	835	880	904	15	12	6	18	14	7			
YES	49	50	42	4	5	3	82	100	71	40	26	34	2	0	1	50	0	29			
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0						
AGE 45-54 AT EXAM																					
MEN																					
B																			1.299	2.028	1.650
SE(B)																			0.580	0.569	0.679
A																			-3.720	-4.225	-4.215
WOMEN																					
B																			1.057	*******	1.512
SE(B)																			0.771	******	1.095
A																			-4.001	*******	-5.008
AGE 55-64 AT EXAM																					
TOTAL	341	492	531	9	18	21	26	37	36	435	606	732	19	24	25	44	40	34			
NO	314	460	536	8	17	17	25	37	32	403	566	683	16	20	23	40	35	34			
YES	27	32	45	1	1	4	37	31	89	32	40	49	3	4	2	94	100	41			
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0						
AGE 55-64 AT EXAM																					
MEN																					
B																			0.386	-0.174	1.091
SE(B)																			1.080	1.046	0.579
A																			-3.644	-3.260	-3.419
WOMEN																					
B																			0.917	1.110	0.200
SE(B)																			0.658	0.574	0.753
A																			-3.186	-3.307	-3.357

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 5-15-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: ATHEROTHROMBOTIC BRAIN INFARCTION
CHARACTERISTIC: GLUCOSE INTOLERANCE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9134	0	0		12616	11	9		9044	21	23		2804	7	25	
NO	8856	0	0	0.0	11900	8	7	6.7	8316	19	23	22.8	2516	7	28	27.8
YES	278	0	0	0.0	716	3	42	41.9	728	2	27	27.5	288	0	0	0.0
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11256	0	0		15826	9	6		11884	21	18		3838	12	31	
NO	11070	0	0	0.0	15310	8	5	5.2	11140	18	16	16.2	3470	9	26	25.9
YES	186	0	0	0.0	516	1	19	19.4	744	3	40	40.3	368	3	82	81.5
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	******	******	1.837	1.314	0.185	0.919	******	1.156
SE(B)	******	******	0.679	1.063	0.745	0.626	******	0.671
A	******	******	-6.610	-6.863	-5.384	-5.732	******	-5.256

TABLE 10-1-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	861	879	893	20	13	11	23	15	12	1095	1126	1082	5	5	3	5	4	3	
074-109	35	72	92	0	0	1	0	0	11	102	204	248	1	1	1	10	5	4	MEN
110-119	115	163	192	2	1	4	17	6	21	234	310	312	1	0	1	4	0	3	B 0.022 0.024 -0.002
120-129	184	217	246	3	1	3	16	5	12	280	268	262	1	2	0	4	7	0	SE(B) 0.011 0.014 0.019
130-139	237	205	186	4	5	1	17	24	5	212	180	138	0	0	1	0	0	7	A -6.807 -7.392 -4.173
140-149	155	127	98	6	5	1	39	39	10	120	83	67	1	1	0	8	12	0	
150-159	55	49	38	2	0	0	36	0	0	68	43	28	0	1	0	0	23	0	WOMEN
160-169	41	22	21	1	0	0	24	0	0	46	17	14	1	0	0	22	0	0	B -0.001 0.018*******
170-179	24	13	10	0	0	0	0	0	0	18	10	6	0	0	0	0	0	0	SE(B) 0.024 0.019 ******
180-189	7	6	8	1	1	1	143	167	125	7	8	2	0	0	0	0	0	0	A -5.200 -7.651*******
190-300	8	5	2	1	0	0	125	0	0	8	3	5	0	0	0	0	0	0	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	726	745	731	33	28	21	45	38	29	878	906	940	18	11	10	21	12	11	
074-109	23	49	53	0	1	1	0	20	19	23	50	104	1	0	2	43	0	19	MEN
110-119	86	122	138	2	2	2	23	16	14	86	128	165	0	4	1	0	31	6	B 0.011 0.019 0.013
120-129	148	164	166	8	3	6	54	18	36	142	156	174	2	1	1	14	6	6	SE(B) 0.007 0.008 0.010
130-139	141	166	146	3	8	3	21	48	21	177	182	173	2	0	2	11	0	12	A -4.536 -5.810 -5.207
140-149	125	110	107	6	5	4	48	45	37	132	126	104	2	1	0	15	8	0	
150-159	77	59	54	6	3	2	78	51	37	109	94	84	1	0	0	9	0	0	WOMEN
160-169	53	33	32	3	2	2	57	61	63	79	64	51	0	3	2	0	47	39	B 0.025 0.013 0.009
170-179	30	14	17	2	3	0	67	214	0	56	32	38	2	0	1	36	0	26	SE(B) 0.006 0.009 0.011
180-189	18	12	7	3	0	1	167	0	143	40	34	21	2	0	0	50	0	0	A -7.753 -6.241 -5.765
190-300	25	16	11	0	1	0	0	63	0	54	40	26	6	2	1	111	50	38	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	339	488	569	28	37	37	83	76	65	434	606	730	19	22	22	44	36	30	
074-109	8	24	46	1	0	2	125	0	43	13	17	28	0	1	1	0	59	36	MEN
110-119	24	54	80	2	5	3	83	93	38	17	38	56	0	1	0	0	26	0	B 0.010 0.011 0.007
120-129	54	80	107	2	5	7	37	63	65	41	64	111	0	0	0	0	0	0	SE(B) 0.007 0.006 0.006
130-139	64	103	110	4	6	7	63	58	64	66	85	125	3	4	3	45	47	24	A -3.958 -4.041 -3.670
140-149	60	70	64	4	5	6	67	71	94	60	81	91	3	2	3	50	25	33	
150-159	50	52	59	8	5	4	160	96	68	65	103	90	1	2	0	15	19	0	WOMEN
160-169	24	40	38	1	5	2	42	125	53	44	70	63	1	4	1	23	57	16	B 0.019 0.015 0.024
170-179	22	19	16	0	0	0	0	0	0	45	49	60	3	1	5	67	20	83	SE(B) 0.006 0.007 0.006
180-189	11	15	17	1	0	3	91	0	176	26	34	44	2	1	3	77	29	68	A -6.148 -5.573 -7.280
190-300	22	31	32	5	6	3	227	194	94	57	65	62	6	6	6	105	92	97	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 10-1-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9114	3	3		12580	20	16		8968	46	51		2652	15	57	
074-109	724	0	0	******	774	0	0	11.2	516	2	39	29.0	136	2	147	87.7
110-119	1748	0	0	******	2120	4	19	12.6	1116	5	45	33.7	230	2	87	76.1
120-129	2338	0	0	******	2736	3	11	13.9	1640	3	18	38.4	370	2	54	68.9
130-139	2080	2	10	******	2720	2	7	15.5	1714	5	29	44.3	514	3	58	61.1
140-149	1194	1	8	******	1806	6	33	17.2	1338	9	67	50.9	432	3	69	54.8
150-159	528	0	0	******	1104	3	27	19.2	922	9	98	58.6	342	0	0	49.1
160-169	256	0	0	******	592	1	17	21.3	640	4	63	66.8	218	1	46	44.1
170-179	140	0	0	******	324	0	0	23.7	414	2	48	76.7	136	0	0	39.4
180-189	62	0	0	******	204	1	49	26.5	264	4	152	87.4	106	0	0	35.0
190-300	44	0	0	******	200	0	0	33.2	404	3	74	121.3	168	2	119	27.1
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11252	2	2		15866	6	4		11918	23	19		3848	12	31	
074-109	2026	1	5	******	1404	1	7	1.0	448	1	22	7.7	72	0	0	9.5
110-119	2962	0	0	******	2692	0	0	1.4	1060	1	9	9.4	206	0	0	11.9
120-129	2704	0	0	******	3108	1	3	1.9	1588	1	6	11.2	320	0	0	14.3
130-139	1788	0	0	******	3084	0	0	2.5	1944	3	15	13.3	522	0	0	17.7
140-149	898	1	11	******	1986	1	5	3.4	1736	2	12	15.8	598	3	50	21.4
150-159	454	0	0	******	1404	0	0	4.5	1600	3	19	18.9	560	2	36	26.0
160-169	218	0	0	******	818	0	0	6.0	1152	2	17	22.4	486	2	41	31.4
170-179	96	0	0	******	530	1	19	8.0	860	3	35	26.7	378	0	0	38.3
180-189	56	0	0	******	402	0	0	10.7	640	3	47	31.6	278	1	36	46.6
190-300	50	0	0	******	438	2	46	34.3	890	4	45	52.3	428	4	93	77.2
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.011	0.030	0.014	0.018	-0.011	0.020
SE(B)	******	******	0.010	0.009	0.005	0.006	0.011	0.009
A	*******	*******	-7.226	-11.546	-6.602	-8.285	-2.866	-8.312

TABLE 10-2-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	861	879	893	20	13	11	23	15	12	1095	1126	1082	5	5	3	5	4	3	
020-069	44	80	93	1	0	2	23	0	22	104	204	230	1	0	1	10	0	4	MEN
070-074	109	136	152	2	1	1	18	7	7	198	252	263	0	1	1	0	4	4	B 0.018 0.035 0.004
075-079	71	92	117	2	0	1	28	0	9	136	154	188	2	1	0	15	6	0	SE(B) 0.018 0.023 0.026
080-084	192	209	185	4	6	3	21	29	16	276	248	178	0	0	0	0	0	0	A -5.284 -7.159 -4.679
085-089	113	107	129	2	1	2	18	9	16	102	107	97	0	1	0	0	9	0	
090-094	156	115	104	4	2	0	26	17	0	144	76	65	1	1	1	7	13	15	WOMEN
095-099	62	64	45	1	1	0	16	16	0	51	35	29	1	1	0	20	29	0	B -0.010 0.043*******
100-104	63	34	36	2	1	1	32	29	28	50	27	19	0	0	0	0	0	0	SE(B) 0.041 0.030 ******
105-109	11	21	17	0	0	1	0	0	59	11	13	5	0	0	0	0	0	0	A -4.559 -8.878*******
110-160	40	21	15	2	1	0	50	48	0	23	10	8	0	0	0	0	0	0	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	726	745	731	33	28	21	45	38	29	878	906	940	18	11	10	21	12	11	
020-069	21	59	66	1	0	2	48	0	30	21	63	99	0	1	1	0	16	10	MEN
070-074	70	77	97	1	3	3	14	39	31	76	123	131	2	2	0	26	16	0	B 0.012 0.018 -0.010
075-079	58	91	94	4	3	2	69	33	21	82	103	136	1	1	2	12	10	15	SE(B) 0.013 0.015 0.019
080-084	175	146	145	5	6	6	29	41	41	192	187	204	2	0	1	10	0	5	A -4.143 -4.763 -2.705
085-089	75	102	101	2	5	2	27	49	20	99	111	123	1	1	0	10	9	0	
090-094	131	109	89	11	3	1	84	28	11	160	128	92	1	1	1	6	8	11	WOMEN
095-099	56	60	61	3	5	4	54	83	66	70	55	59	2	1	2	29	18	34	B 0.049 0.032 0.032
100-104	71	55	32	2	1	0	28	18	0	77	53	39	4	1	0	52	19	0	SE(B) 0.014 0.018 0.020
105-109	23	17	18	1	1	1	43	59	56	27	26	17	0	0	2	0	0	118	A -8.414 -7.288 -7.304
110-160	46	29	28	3	1	0	65	34	0	74	57	40	5	3	1	68	53	25	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	339	488	569	28	37	37	83	76	65	434	606	730	19	22	22	44	36	30	
020-069	18	41	57	4	5	8	222	122	140	13	31	52	0	1	2	0	32	38	MEN
070-074	34	66	90	2	2	5	59	30	56	35	67	82	1	4	1	29	60	12	B 0.000 0.002 -0.009
075-079	39	64	64	4	4	4	103	63	63	27	56	79	0	0	2	0	0	25	SE(B) 0.014 0.012 0.013
080-084	70	91	119	3	8	3	43	88	25	73	109	147	3	3	1	41	28	7	A -2.450 -2.713 -1.877
085-089	37	43	66	5	3	4	135	70	61	55	72	102	1	2	2	18	28	20	
090-094	55	72	64	4	5	5	73	69	78	82	91	100	4	3	3	49	33	30	WOMEN
095-099	23	30	38	1	4	3	43	133	79	35	59	59	2	1	5	57	17	85	B 0.032 0.020 0.041
100-104	26	35	18	0	2	1	0	57	56	50	51	41	2	4	0	40	78	0	SE(B) 0.013 0.014 0.014
105-109	7	10	19	1	0	3	143	0	158	12	22	25	0	0	0	0	0	0	A -6.108 -5.117 -7.113
110-160	30	36	34	4	4	1	133	111	29	52	48	43	6	4	6	115	83	140	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 10-2-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9114	3	3		12580	20	16		8968	46	51		2652	15	57	
020-069	730	0	0	******	766	3	39	16.0	696	4	57	51.4	320	4	125	145.4
070-074	1322	0	0	******	1544	1	6	16.0	1222	5	41	51.4	442	3	68	83.8
075-079	998	0	0	******	1276	2	16	16.0	932	6	64	51.3	276	4	145	61.2
080-084	2258	0	0	******	3022	4	13	15.9	1956	10	51	51.3	558	2	36	46.3
085-089	1234	0	0	******	1698	2	12	15.9	988	3	30	51.3	284	0	0	33.4
090-094	1190	1	8	******	1792	2	11	15.9	1272	5	39	51.3	344	1	29	25.4
095-099	558	1	18	******	846	2	24	15.8	592	5	84	51.3	120	1	83	18.9
100-104	472	1	21	******	882	2	23	15.8	626	5	80	51.3	148	0	0	14.4
105-109	136	0	0	******	284	1	35	15.8	192	1	52	51.3	32	0	0	9.7
110-160	216	0	0	******	470	1	21	15.7	492	2	41	51.2	128	0	0	5.9
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11252	2	2		15866	6	4		11918	23	19		3848	12	31	
020-069	1912	0	0	******	1420	1	7	1.2	764	1	13	7.9	302	0	0	12.1
070-074	2418	1	4	******	2460	0	0	1.7	1416	2	14	10.3	450	1	22	15.9
075-079	1594	0	0	******	1792	0	0	2.2	1084	1	9	12.4	336	0	0	19.5
080-084	2464	0	0	******	3682	2	5	2.8	2542	4	16	14.6	848	0	0	23.1
085-089	1106	0	0	******	1900	0	0	3.5	1484	4	27	17.4	376	1	27	28.3
090-094	880	0	0	******	2026	0	0	4.4	1884	2	11	20.7	640	6	94	33.8
095-099	362	0	0	******	800	1	13	5.5	798	2	25	24.6	288	1	35	40.6
100-104	288	1	35	******	824	1	12	6.9	916	1	11	29.0	310	2	65	48.4
105-109	100	0	0	******	276	0	0	8.9	296	2	68	34.7	68	0	0	58.8
110-160	128	0	0	******	686	1	15	16.8	734	4	54	51.8	230	1	43	87.4
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.000	0.047	-0.000	0.035	-0.060	0.038
SE(B)	******	******	0.019	0.022	0.011	0.013	0.023	0.019
A	*******	*******	-5.714	-11.291	-4.564	-8.680	0.246	-8.433

TABLE 10-3-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	861	879	893	20	13	11	23	15	12	1095	1126	1082	5	5	3	5	4	3
096-189	140	173	174	2	2	2	14	12	11	213	334	331	0	1	0	0	3	0
190-204	93	99	115	0	1	3	0	10	26	133	206	187	0	1	1	0	5	5
205-219	58	136	141	0	3	0	0	22	0	85	152	155	0	0	1	0	0	6
220-234	108	143	132	6	0	1	56	0	8	98	135	131	0	1	0	0	7	0
235-249	50	95	100	1	2	0	20	21	0	50	90	96	1	1	0	20	11	0
250-264	53	72	76	0	1	1	0	14	13	46	56	57	1	0	0	22	0	0
265-279	28	53	48	0	1	1	0	19	21	23	55	36	0	0	0	0	0	0
280-294	18	32	36	0	0	0	0	0	0	16	28	29	0	1	0	0	36	0
295-309	12	20	23	0	0	2	0	0	87	6	17	25	0	0	1	0	0	40
310-696	18	29	34	1	3	1	56	103	29	3	15	13	0	0	0	0	0	0
UNKNOWN	283	27	14	10	0	0				422	38	22	3	0	0			
AGE 45-54 AT EXAM																		
TOTAL	726	745	731	33	28	21	45	38	29	878	906	940	18	11	10	21	12	11
096-189	76	96	91	1	1	0	13	10	0	74	102	109	0	0	0	0	0	0
190-204	59	94	83	4	1	2	68	11	24	41	91	97	1	0	1	24	0	10
205-219	50	111	130	2	4	5	40	36	38	55	117	118	0	2	1	0	17	8
220-234	67	128	117	2	2	3	30	16	26	85	145	139	2	1	1	24	7	7
235-249	50	108	91	3	8	2	60	74	22	42	111	131	0	2	3	0	18	23
250-264	39	72	86	1	5	4	26	69	47	35	80	98	0	3	0	0	38	0
265-279	25	45	50	1	0	1	40	0	20	41	76	76	2	1	1	49	13	13
280-294	27	39	32	3	3	2	111	77	63	31	58	56	2	0	1	65	0	18
295-309	14	21	18	2	2	1	143	95	56	24	33	36	0	0	0	0	0	0
310-696	11	18	21	2	1	1	182	56	48	37	63	67	1	1	2	27	16	30
UNKNOWN	308	13	12	12	1	0				413	30	13	10	1	0			
AGE 55-64 AT EXAM																		
TOTAL	339	488	569	28	37	37	83	76	65	434	606	730	19	22	22	44	36	30
096-189	51	87	102	3	4	3	59	46	29	16	31	39	2	0	0	125	0	0
190-204	32	63	57	4	4	3	125	63	53	20	42	49	1	1	1	50	24	20
205-219	31	72	93	4	5	7	129	69	75	22	49	65	0	2	2	0	41	31
220-234	40	61	67	3	3	3	75	49	45	47	97	95	3	3	3	64	31	32
235-249	30	49	79	1	3	3	33	61	38	27	69	88	0	5	2	0	72	23
250-264	18	59	73	0	3	2	0	51	27	39	74	102	1	0	2	26	0	20
265-279	15	33	31	4	6	2	267	182	65	29	62	89	1	2	5	34	32	56
280-294	11	23	31	2	2	3	182	87	97	20	47	54	2	0	0	100	0	0
295-309	9	21	19	2	3	8	222	143	421	19	36	55	1	1	3	53	28	55
310-696	7	13	15	1	4	2	143	308	133	28	78	82	2	8	4	71	103	49
UNKNOWN	95	7	2	4	0	1				167	21	12	6	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.003	0.010	0.010
SE(B)	0.006	0.004	0.005
A	-4.774	-6.618	-6.848
WOMEN			
B	*******	0.007	*******
SE(B)	******	0.009	******
A	*******	-6.941	*******
AGE 45-54 AT EXAM			
MEN			
B	0.013	0.013	0.009
SE(B)	0.005	0.005	0.005
A	-6.095	-6.274	-5.618
WOMEN			
B	0.013	0.006	0.007
SE(B)	0.006	0.006	0.005
A	-7.298	-5.839	-6.353
AGE 55-64 AT EXAM			
MEN			
B	0.007	0.012	0.012
SE(B)	0.005	0.004	0.004
A	-3.815	-5.258	-5.506
WOMEN			
B	0.002	0.008	0.007
SE(B)	0.006	0.004	0.005
A	-3.372	-5.378	-5.398

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 10-3-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9114	3	3		12580	20	16		8968	46	51		2652	15	57	
096-189	1534	0	0	******	1378	1	7	9.4	1068	3	28	28.5	326	3	92	70.7
190-204	994	0	0	******	1216	3	25	11.5	912	2	22	35.1	308	1	32	64.2
205-219	1200	0	0	******	1764	3	17	13.0	1138	6	53	39.8	348	3	86	61.0
220-234	1328	0	0	******	1832	3	16	14.7	1318	6	46	45.3	420	2	48	57.9
235-249	984	0	0	******	1578	1	6	16.6	1230	6	49	51.1	298	2	67	55.0
250-264	802	0	0	******	1418	2	14	18.6	1102	4	36	57.9	304	0	0	52.1
265-279	570	1	18	******	1018	0	0	21.1	776	5	64	65.7	240	0	0	49.5
280-294	410	0	0	******	696	2	29	23.9	512	7	137	74.6	204	3	147	47.0
295-309	254	0	0	******	406	1	25	27.0	312	3	96	84.5	82	0	0	44.6
310-696	358	1	28	******	550	4	73	39.7	352	3	85	115.0	104	1	96	40.9
UNKNOWN	680	1			724	0			248	1			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11252	2	2		15866	6	4		11918	23	19		3848	12	31	
096-189	2934	0	0	******	1502	0	0	1.7	486	0	0	9.6	116	0	0	28.1
190-204	1784	1	6	******	1460	0	0	2.1	616	0	0	11.3	162	2	123	29.1
205-219	1488	0	0	******	1806	0	0	2.3	920	2	22	12.4	274	0	0	29.6
220-234	1350	1	7	******	2214	0	0	2.6	1416	2	14	13.8	428	1	23	30.1
235-249	980	0	0	******	1942	0	0	2.9	1366	1	7	15.3	492	1	20	30.7
250-264	634	0	0	******	1650	0	0	3.3	1576	5	32	16.9	510	1	20	31.3
265-279	442	0	0	******	1394	2	14	3.6	1478	4	27	18.7	534	1	19	31.8
280-294	298	0	0	******	1040	1	10	4.1	1182	1	8	20.7	400	2	50	32.5
295-309	160	0	0	******	678	0	0	4.6	866	1	12	23.0	300	2	67	33.1
310-1124	180	0	0	******	1208	2	17	9.0	1574	5	32	30.6	582	2	34	34.5
UNKNOWN	1002	0			972	1			438	2			50	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.008	0.008	0.009	0.007	-0.004	0.001
SE(B)	******	******	0.004	0.002	0.003	0.004	0.006	0.007
A	*******	*******	-7.692	-9.269	-6.633	-7.455	-3.644	-5.388

TABLE 10-4-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	861	879	893	20	13	11	23	15	12	1095	1126	1082	5	5	3	5	4	3	
067-119	18	26	17	0	1	0	0	38	0	181	275	242	1	1	1	6	4	4	MEN
120-124	13	43	25	0	0	0	0	0	0	112	244	188	0	0	0	0	0	0	B -0.016 -0.006 0.016
125-129	24	61	30	1	0	1	42	0	33	98	161	170	0	1	0	0	6	0	SE(B) 0.026 0.023 0.027
130-134	61	125	94	2	2	1	33	16	11	87	196	209	0	0	0	0	0	0	A -1.746 -3.251 -6.673
135-139	91	126	109	2	4	1	22	32	9	95	106	121	0	1	0	0	9	0	
140-144	104	148	134	3	2	2	29	14	15	47	44	71	1	0	1	21	0	14	WOMEN
145-149	69	106	192	1	1	1	14	9	5	5	20	27	0	1	0	0	50	0	B******* 0.076*******
150-154	84	102	110	0	3	1	0	29	9	8	15	14	0	1	1	0	67	71	SE(B)****** 0.037 ******
155-159	44	57	99	0	0	3	0	0	30	2	8	6	0	0	0	0	0	0	A*******-15.344*******
160-216	53	51	65	1	0	1	19	0	15	5	3	1	0	0	0	0	0	0	
UNKNOWN	300	34	18	10	0	0				455	54	33	3	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	726	745	731	33	28	21	45	38	29	878	906	940	18	11	10	21	12	11	
067-119	11	30	15	0	1	1	0	33	67	78	172	152	0	2	0	0	12	0	MEN
120-124	20	43	29	0	1	0	0	23	0	87	195	159	3	2	2	34	10	13	B 0.002 0.015 0.005
125-129	20	41	28	3	3	1	150	73	36	65	129	145	0	1	3	0	8	21	SE(B) 0.019 0.016 0.019
130-134	43	104	94	2	3	3	47	29	32	76	180	187	1	1	0	13	6	0	A -3.210 -5.330 -4.188
135-139	65	102	89	5	3	2	77	29	22	69	93	134	0	2	2	0	22	15	
140-144	78	125	136	4	5	3	51	40	22	34	50	65	2	2	2	59	40	31	WOMEN
145-149	52	103	127	3	3	4	58	29	31	15	23	48	1	0	1	67	0	21	B 0.030 0.023 0.030
150-154	47	89	83	1	1	3	21	11	36	11	13	20	0	0	0	0	0	0	SE(B) 0.035 0.029 0.028
155-159	31	46	63	0	2	1	0	43	16	3	5	8	0	0	0	0	0	0	A -8.042 -7.369 -8.489
160-216	32	42	52	2	5	3	63	119	58	1	3	4	0	0	0	0	0	0	
UNKNOWN	327	20	15	13	1	0				439	43	18	11	1	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	339	488	569	28	37	37	83	76	65	434	606	730	19	22	22	44	36	30	
067-119	22	31	24	3	0	0	136	0	0	43	114	96	2	2	2	47	18	21	MEN
120-124	12	24	25	2	2	3	167	83	120	47	106	114	0	6	1	0	57	9	B 0.007 0.023 0.012
125-129	12	33	31	0	3	1	0	91	32	39	91	105	1	0	3	26	0	29	SE(B) 0.016 0.014 0.015
130-134	33	76	52	5	7	4	152	92	77	49	131	178	3	7	5	61	53	28	A -3.114 -5.764 -4.408
135-139	35	76	78	2	6	4	57	79	51	39	59	88	1	4	1	26	68	11	
140-144	49	89	98	3	5	4	61	56	41	23	45	62	2	1	5	87	22	81	WOMEN
145-149	17	45	103	2	3	12	118	67	117	7	14	42	0	1	4	0	71	95	B 0.055 0.022 0.044
150-154	26	51	64	1	3	2	38	59	31	5	10	16	2	1	1	400	100	63	SE(B) 0.030 0.020 0.020
155-159	11	30	53	2	5	2	182	167	38	2	6	10	0	0	0	0	0	0	A-10.294 -6.042 -9.240
160-216	17	18	37	4	3	4	235	167	108	1	1	1	0	0	0	0	0	0	
UNKNOWN	105	15	4	4	0	1				179	29	18	8	0	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 10-4-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9114	3	3		12580	20	16		8968	46	51		2652	15	57	
067-119	138	0	0	******	148	0	0	13.3	228	0	0	29.1	50	0	0	68.5
120-124	206	0	0	******	264	0	0	14.0	192	2	104	33.7	18	0	0	66.5
125-129	282	0	0	******	292	1	34	14.5	240	1	42	36.2	48	0	0	64.5
130-134	694	0	0	******	846	1	12	15.1	654	3	46	39.7	122	2	164	62.7
135-139	894	0	0	******	1062	2	19	15.7	820	4	49	43.4	234	4	171	60.9
140-144	1306	0	0	******	1752	4	23	16.2	1358	1	7	47.0	358	0	0	59.3
145-149	1566	1	6	******	2130	4	19	16.8	1538	13	85	50.9	434	1	23	57.8
150-154	1302	0	0	******	1914	1	5	17.4	1350	9	67	55.5	538	5	93	56.1
155-159	998	0	0	******	1532	2	13	18.1	1144	3	26	60.0	366	0	0	54.7
160-216	978	1	10	******	1844	5	27	19.3	1152	9	78	70.5	458	3	66	51.9
UNKNOWN	750	1			796	0			292	1			26	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11252	2	2		15866	6	4		11918	23	19		3848	12	31	
067-119	1968	0	0	******	1656	0	0	0.8	972	1	10	15.8	208	1	48	13.8
120-124	1584	0	0	******	1744	1	6	1.5	1074	2	19	16.9	250	0	0	18.7
125-129	1550	0	0	******	1958	0	0	1.9	1334	2	15	17.4	384	1	26	21.7
130-134	2042	0	0	******	2802	1	4	2.6	2344	4	17	18.0	666	0	0	25.5
135-139	1446	0	0	******	2568	0	0	3.5	1954	2	10	18.7	674	3	45	29.8
140-144	810	0	0	******	1826	1	5	4.6	1626	5	31	19.3	696	0	0	34.5
145-149	424	0	0	******	1246	0	0	6.2	1100	3	27	20.0	442	3	68	40.3
150-154	186	2	108	******	596	0	0	8.4	554	1	18	20.7	244	3	123	47.0
155-159	78	0	0	******	200	2	100	11.1	290	0	0	21.4	142	1	70	54.6
160-216	34	0	0	******	156	0	0	18.0	164	1	61	22.6	86	0	0	70.1
UNKNOWN	1130	0			1114	1			506	2			56	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.007	0.059	0.017	0.007	-0.006	0.031
SE(B)	******	******	0.019	0.039	0.012	0.020	0.022	0.026
A	*******	*******	-6.772	-15.424	-7.072	-6.542	-3.631	-9.435

TABLE 10-5-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	861	879	893	20	13	11	23	15	12	1095	1126	1082	5	5	3	5	4	3
062-159	252	236	128	5	3	1	20	13	8	343	444	216	0	1	1	0	2	5
160-179	83	141	74	1	1	0	12	7	0	104	193	127	0	0	0	0	0	0
180-199	99	155	112	2	2	2	20	13	18	92	150	132	0	0	0	0	0	0
200-219	45	133	125	0	1	2	0	8	16	59	150	186	0	2	1	0	13	5
220-239	34	64	123	0	2	0	0	31	0	39	73	148	2	1	0	51	14	0
240-259	30	35	106	0	0	2	0	0	19	18	32	117	0	0	0	0	0	0
260-279	16	39	75	0	2	1	0	51	13	7	22	59	0	0	1	0	0	17
280-299	3	23	61	0	0	1	0	0	16	3	12	43	0	0	0	0	0	0
300-319	4	13	32	1	0	0	250	0	0	1	4	16	0	0	0	0	0	0
320-968	7	12	39	1	2	2	143	167	51	0	6	8	0	1	0	****	167	0
UNKNOWN	288	28	18	10	0	0				429	40	30	3	0	0			
AGE 45-54 AT EXAM																		
TOTAL	726	745	731	33	28	21	45	38	29	878	906	940	18	11	10	21	12	11
062-159	155	210	112	9	5	4	58	24	36	158	204	133	2	0	0	13	0	0
160-179	67	118	80	1	5	2	15	42	25	65	113	90	2	3	2	31	27	22
180-199	47	132	90	2	8	3	43	61	33	72	141	86	1	2	0	14	14	0
200-219	48	117	109	3	4	1	63	34	9	72	170	172	1	1	1	14	6	6
220-239	20	63	91	2	3	1	100	48	11	33	99	94	0	2	1	0	20	11
240-259	27	41	77	1	1	4	37	24	52	18	65	114	1	0	2	56	0	18
260-279	24	28	58	3	1	2	125	36	34	13	51	93	0	2	1	0	39	11
280-299	10	12	50	0	0	1	0	0	20	10	18	58	0	0	2	0	0	34
300-319	4	5	24	0	0	2	0	0	83	5	6	31	1	0	0	200	0	0
320-968	5	4	25	0	0	1	0	0	40	11	6	44	0	0	1	0	0	23
UNKNOWN	319	15	15	12	1	0				421	33	25	10	1	0			
AGE 55-64 AT EXAM																		
TOTAL	339	488	569	28	37	37	83	76	65	434	606	730	19	22	22	44	36	30
062-159	90	121	81	7	5	1	78	41	12	71	79	59	3	1	0	42	13	0
160-179	49	81	58	6	5	4	122	62	69	38	79	47	3	4	2	79	51	43
180-199	26	75	66	3	1	3	115	13	45	37	106	85	1	4	1	27	38	12
200-219	31	84	84	4	12	8	129	143	95	40	124	111	1	1	3	25	8	27
220-239	14	53	85	2	6	2	143	113	24	29	76	99	2	5	5	69	66	51
240-259	9	28	80	1	2	5	111	71	63	13	46	110	0	1	2	0	22	18
260-279	14	20	44	1	3	4	71	150	91	15	31	62	1	0	2	67	0	32
280-299	3	12	23	0	2	4	0	167	174	5	23	68	0	3	1	0	130	15
300-319	0	2	26	0	1	3	****	500	115	8	9	41	0	1	3	0	111	73
320-968	3	3	20	0	0	2	0	0	100	6	9	33	1	2	3	167	222	91
UNKNOWN	100	9	2	4	0	1				172	24	15	7	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.004	0.008	0.008
SE(B)	0.005	0.004	0.005
A	-4.777	-5.814	-6.286
WOMEN			
B	*******	0.018	*******
SE(B)	******	0.007	******
A	*******	-8.956	*******
AGE 45-54 AT EXAM			
MEN			
B	0.001	0.000	0.002
SE(B)	0.004	0.004	0.004
A	-3.079	-3.338	-4.048
WOMEN			
B	0.004	0.007	0.008
SE(B)	0.006	0.007	0.005
A	-4.714	-5.788	-6.416
AGE 55-64 AT EXAM			
MEN			
B	0.001	0.008	0.007
SE(B)	0.004	0.003	0.003
A	-2.368	-4.073	-4.170
WOMEN			
B	-0.002	0.010	0.008
SE(B)	0.006	0.004	0.004
A	-2.701	-5.492	-5.410

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 10-5-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9114	3	3		12580	20	16		8968	46	51		2652	15	57	
062-159	1328	0	0	******	1150	3	26	14.8	734	1	14	28.2	62	0	0	79.7
160-179	664	0	0	******	646	0	0	15.4	472	3	64	33.3	70	1	143	73.2
180-199	942	0	0	******	830	2	24	15.8	610	0	0	37.0	54	0	0	69.7
200-219	904	0	0	******	1022	2	20	16.2	794	6	76	41.0	200	2	100	65.6
220-239	892	0	0	******	1244	3	24	16.6	950	3	32	45.4	268	2	75	62.0
240-259	942	1	11	******	1640	1	6	17.0	1310	4	31	50.3	512	3	59	58.7
260-279	952	1	11	******	1616	2	12	17.4	1344	8	60	55.6	500	2	40	55.5
280-299	644	0	0	******	1414	2	14	17.7	1040	8	77	61.2	406	1	25	52.9
300-319	510	0	0	******	992	2	20	18.2	706	6	85	67.8	316	2	63	50.0
320-968	616	0	0	******	1244	3	24	19.1	736	6	82	86.1	246	2	81	46.0
UNKNOWN	720	1			782	0			272	1			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11252	2	2		15866	6	4		11918	23	19		3848	12	31	
062-159	2244	1	4	******	1336	0	0	1.2	614	0	0	6.6	30	0	0	55.3
160-179	986	0	0	******	768	0	0	1.6	462	0	0	8.4	46	1	217	49.2
180-199	1104	0	0	******	876	1	11	1.9	608	0	0	9.7	66	1	152	45.3
200-219	1296	0	0	******	1572	0	0	2.2	970	0	0	11.4	180	1	56	41.6
220-239	1246	0	0	******	1558	0	0	2.6	958	4	42	13.2	216	0	0	38.4
240-259	1182	0	0	******	1922	0	0	3.0	1288	4	31	15.1	406	0	0	35.8
260-279	892	0	0	******	2022	0	0	3.5	1592	3	19	17.4	638	1	16	33.2
280-299	612	0	0	******	1686	0	0	4.0	1498	2	13	20.1	640	4	63	30.9
300-319	362	1	28	******	1356	2	15	4.7	1454	2	14	23.0	716	1	14	28.8
320-968	262	0	0	******	1698	2	12	7.1	1994	6	30	31.1	846	3	35	25.1
UNKNOWN	1066	0			1072	1			480	2			64	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.001	0.008	0.005	0.007	-0.003	-0.004
SE(B)	******	******	0.004	0.004	0.002	0.004	0.006	0.006
A	*******	*******	-5.970	-9.323	-5.863	-7.609	-3.736	-3.973

TABLE 10-6-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	861	879	893	20	13	11	23	15	12	1095	1126	1082	5	5	3	5	4	3
029-059	16	21	17	0	1	0	0	48	0	12	18	20	0	0	0	0	0	0
060-069	152	136	145	2	3	2	13	22	14	149	175	171	1	1	2	7	6	12
070-079	215	315	325	1	3	3	5	10	9	287	397	390	1	2	0	3	5	0
080-089	181	219	221	4	4	4	22	18	18	237	303	305	1	1	1	4	3	3
090-099	70	104	113	2	0	0	29	0	0	92	128	111	0	0	0	0	0	0
100-109	30	39	42	0	0	0	0	0	0	34	45	33	0	1	0	0	22	0
110-119	17	13	10	2	0	0	118	0	0	14	17	15	1	0	0	71	0	0
120-129	7	2	6	1	0	0	143	0	0	5	7	5	0	0	0	0	0	0
130-139	5	5	3	0	1	0	0	200	0	2	1	4	0	0	0	0	0	0
140-524	4	5	4	1	1	2	250	200	500	4	5	7	0	0	0	0	0	0
UNKNOWN	164	20	7	7	0	0				259	30	21	1	0	0			
AGE 45-54 AT EXAM																		
TOTAL	726	745	731	33	28	21	45	38	29	878	906	940	18	11	10	21	12	11
029-059	11	15	13	2	1	1	182	67	77	5	10	14	0	0	0	0	0	0
060-069	103	98	102	5	3	4	49	31	39	88	122	122	1	0	0	11	0	0
070-079	155	251	227	7	8	5	45	32	22	167	261	330	2	4	6	12	15	18
080-089	132	183	210	4	8	7	30	44	33	196	281	265	3	3	0	15	11	0
090-099	78	102	91	2	2	2	26	20	22	87	114	117	0	0	1	0	0	9
100-109	19	37	43	2	2	1	105	54	23	46	50	37	1	1	1	22	20	27
110-119	13	24	14	0	1	0	0	42	0	14	23	20	1	1	1	71	43	50
120-129	3	7	6	0	0	0	0	0	0	6	3	4	0	0	0	0	0	0
130-139	6	2	3	0	0	0	0	0	0	2	4	5	1	0	0	500	0	0
140-524	13	15	14	3	2	1	231	133	71	9	13	15	1	1	1	111	77	67
UNKNOWN	193	11	8	8	1	0				258	25	11	8	1	0			
AGE 55-64 AT EXAM																		
TOTAL	339	488	569	28	37	37	83	76	65	434	606	730	19	22	22	44	36	30
029-059	8	8	6	2	1	1	250	125	167	5	15	12	0	0	0	0	0	0
060-069	38	66	76	4	3	4	105	45	53	35	59	60	2	3	3	57	51	50
070-079	90	150	166	9	14	13	100	93	78	94	162	206	5	5	5	53	31	24
080-089	71	128	144	3	8	5	42	63	35	90	168	226	4	9	8	44	54	35
090-099	38	58	93	2	1	5	53	17	54	55	99	99	1	3	1	18	30	10
100-109	13	22	28	0	2	0	0	91	0	24	45	56	0	1	1	0	22	18
110-119	8	20	18	2	1	0	250	50	0	4	9	18	1	0	1	250	0	56
120-129	2	8	14	1	1	2	500	125	143	6	12	18	0	0	1	0	0	56
130-139	2	2	4	0	0	1	0	0	250	4	1	3	0	0	0	0	0	0
140-524	10	14	17	2	6	5	200	429	294	14	18	23	1	1	2	71	56	87
UNKNOWN	59	12	3	3	0	1				103	18	9	5	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.033	0.023	0.019
SE(B)	0.009	0.012	0.006
A	-6.774	-6.050	-6.016
WOMEN			
B	*******	0.007	*******
SE(B)	******	0.031	******
A	*******	-5.986	*******
AGE 45-54 AT EXAM			
MEN			
B	0.008	0.004	0.000
SE(B)	0.005	0.005	0.009
A	-3.748	-3.617	-3.524
WOMEN			
B	0.023	0.015	0.016
SE(B)	0.007	0.009	0.005
A	-6.215	-5.751	-6.002
AGE 55-64 AT EXAM			
MEN			
B	0.002	0.011	0.010
SE(B)	0.006	0.004	0.004
A	-2.469	-3.503	-3.573
WOMEN			
B	-0.004	0.001	0.010
SE(B)	0.011	0.007	0.003
A	-2.786	-3.350	-4.377

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 10-6-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9114	3	3		12580	20	16		8968	46	51		2652	15	57	
029-059	298	0	0	******	354	1	28	12.4	254	1	39	34.9	68	1	147	86.9
060-069	1732	0	0	******	2280	2	9	13.5	1444	3	21	39.0	472	5	106	72.8
070-079	2976	2	7	******	4066	4	10	14.8	2752	15	55	43.2	772	2	26	63.6
080-089	2116	0	0	******	2872	7	24	16.1	2160	6	28	47.8	592	3	51	54.7
090-099	922	0	0	******	1370	2	15	17.6	1076	7	65	53.1	392	3	77	47.0
100-109	356	0	0	******	544	1	18	19.4	432	2	46	59.0	122	1	82	40.5
110-119	162	0	0	******	258	1	39	21.3	242	4	165	66.2	60	0	0	34.8
120-129	54	0	0	******	104	0	0	23.1	132	0	0	74.1	36	0	0	29.7
130-139	38	0	0	******	56	0	0	25.5	60	1	167	82.6	30	0	0	25.8
140-524	60	0	0	******	222	2	90	65.1	232	6	259	212.9	84	0	0	11.3
UNKNOWN	400	1			454	0			184	1			24	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11252	2	2		15866	6	4		11918	23	19		3848	12	31	
029-059	262	0	0	******	308	0	0	6.6	240	0	0	10.7	60	0	0	24.8
060-069	1870	1	5	******	2722	1	4	4.8	1508	1	7	12.3	464	1	22	26.7
070-079	3916	1	3	******	5276	2	4	3.6	3732	4	11	14.0	1212	6	50	28.6
080-089	2922	0	0	******	3980	2	5	2.8	3188	5	16	15.9	990	1	10	30.5
090-099	1012	0	0	******	1648	0	0	2.1	1480	3	20	18.2	510	1	20	32.6
100-109	336	0	0	******	642	0	0	1.5	638	2	31	20.9	258	0	0	34.8
110-119	140	0	0	******	298	0	0	1.1	274	1	36	24.0	88	0	0	37.5
120-129	52	0	0	******	104	0	0	0.9	208	1	48	27.4	94	2	213	40.1
130-139	20	0	0	******	42	0	0	0.6	62	1	161	31.7	34	0	0	42.6
140-524	58	0	0	******	170	0	0	0.2	290	4	138	142.6	96	1	104	74.6
UNKNOWN	664	0			676	1			298	1			42	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.009	-0.029	0.011	0.014	-0.016	0.007
SE(B)	******	******	0.004	0.039	0.003	0.002	0.017	0.007
A	*******	*******	-6.516	-5.039	-5.558	-6.906	-3.195	-5.670

TABLE 10-7-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: URIC ACID (MG/LITER)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	861	879	893	20	13	11	23	15	12	1095	1126	1082	5	5	3	5	4	3
005-029	30	15	22	2	0	0	67	0	0	188	170	169	0	0	0	0	0	0
030-034	36	41	29	1	2	2	28	49	69	120	207	255	0	0	1	0	0	4
035-039	77	53	64	1	0	1	13	0	16	124	273	267	0	1	1	0	4	4
040-044	77	137	150	1	3	1	13	22	7	112	219	209	1	1	1	9	5	5
045-049	89	159	182	1	1	1	11	6	5	66	117	88	1	1	0	15	9	0
050-054	98	151	175	0	2	1	0	13	6	22	56	44	0	2	0	0	36	0
055-059	73	120	138	3	1	2	41	8	14	23	28	20	0	0	0	0	0	0
060-064	43	87	66	0	3	3	0	34	45	6	9	3	0	0	0	0	0	0
065-069	29	53	29	0	1	0	0	19	0	4	4	4	0	0	0	0	0	0
070-104	24	35	24	1	0	0	42	0	0	5	4	1	0	0	0	0	0	0
UNKNOWN	285	28	14	10	0	0				425	39	22	3	0	0			
AGE 45-54 AT EXAM																		
TOTAL	726	745	731	33	28	21	45	38	29	878	906	940	18	11	10	21	12	11
005-029	23	17	9	3	0	0	130	0	0	87	101	103	2	1	0	23	10	0
030-034	26	22	23	0	0	0	0	0	0	72	112	162	0	3	3	0	27	19
035-039	46	67	49	2	1	1	43	15	20	79	175	202	2	0	0	25	0	0
040-044	50	102	124	2	6	6	40	59	48	73	177	184	0	1	0	0	6	0
045-049	74	126	152	3	5	2	41	40	13	76	120	132	2	0	1	26	0	8
050-054	59	117	139	4	2	6	68	17	43	36	87	86	1	2	5	28	23	58
055-059	56	109	93	4	6	3	71	55	32	15	60	41	1	2	0	67	33	0
060-064	37	78	79	2	4	1	54	51	13	14	26	10	0	1	1	0	38	100
065-069	22	47	30	1	1	2	45	21	67	8	8	4	0	0	0	0	0	0
070-104	24	47	20	0	2	0	0	43	0	3	7	2	0	0	0	0	0	0
UNKNOWN	309	13	13	12	1	0				415	33	14	10	1	0			
AGE 55-64 AT EXAM																		
TOTAL	339	488	569	28	37	37	83	76	65	434	606	730	19	22	22	44	36	30
005-029	9	8	5	2	1	1	222	125	200	26	60	53	1	3	3	38	50	57
030-034	19	21	15	1	2	1	53	95	67	39	72	97	1	2	4	26	28	41
035-039	26	47	59	3	5	3	115	106	51	49	104	138	3	3	3	61	29	22
040-044	37	61	92	1	9	4	27	148	43	60	117	171	4	2	1	67	17	6
045-049	40	83	110	3	3	11	75	36	100	36	100	123	1	4	6	28	40	49
050-054	39	81	111	6	5	5	154	62	45	27	59	66	2	3	1	74	51	15
055-059	32	70	89	2	4	7	63	57	79	16	37	37	0	3	2	0	81	54
060-064	19	59	47	0	4	3	0	68	64	4	20	16	0	2	1	0	100	63
065-069	12	28	24	3	2	1	250	71	42	4	10	11	0	0	1	0	0	91
070-104	11	22	14	3	2	0	273	91	0	4	6	6	0	0	0	0	0	0
UNKNOWN	95	8	3	4	0	1				169	21	12	7	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	-0.018	-0.008	-0.009
SE(B)	0.026	0.026	0.031
A	-3.209	-3.784	-3.917
WOMEN			
B	*******	0.068	*******
SE(B)	******	0.037	******
A	*******	-8.183	*******
AGE 45-54 AT EXAM			
MEN			
B	-0.014	0.016	0.001
SE(B)	0.018	0.016	0.022
A	-2.244	-4.127	-3.561
WOMEN			
B	0.020	0.024	0.075
SE(B)	0.031	0.030	0.032
A	-4.844	-5.506	-7.736
AGE 55-64 AT EXAM			
MEN			
B	0.017	-0.016	-0.012
SE(B)	0.018	0.016	0.018
A	-3.050	-1.666	-2.098
WOMEN			
B	-0.013	0.012	0.001
SE(B)	0.029	0.020	0.023
A	-2.535	-3.750	-3.514

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 10-7-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: URIC ACID (MG/LITER)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9114	3	3		12580	20	16		8968	46	51		2652	15	57	
005-029	190	0	0	******	182	1	55	18.0	84	1	119	68.7	34	0	0	50.5
030-034	352	0	0	******	356	1	28	17.7	310	2	65	62.9	84	1	119	51.9
035-039	644	0	0	******	1000	2	20	17.5	796	4	50	59.9	234	2	85	53.1
040-044	1402	1	7	******	1796	3	17	17.3	1410	8	57	56.3	480	1	21	54.7
045-049	1650	0	0	******	2426	2	8	17.1	1882	11	58	53.1	516	3	58	56.2
050-054	1590	0	0	******	2344	3	13	16.9	1516	7	46	50.2	448	2	45	57.6
055-059	1214	1	8	******	1678	3	18	16.7	1260	3	24	47.4	420	2	48	59.2
060-064	706	0	0	******	1030	2	19	16.5	820	5	61	44.8	240	2	83	60.8
065-069	406	0	0	******	532	1	19	16.3	348	2	57	42.3	96	2	208	62.3
070-104	266	0	0	******	462	2	43	15.9	276	2	72	37.9	76	0	0	65.5
UNKNOWN	694	1			774	0			266	1			24	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11252	2	2		15866	6	4		11918	23	19		3848	12	31	
005-029	1822	0	0	******	2154	0	0	0.5	1028	1	10	15.7	254	1	39	33.3
030-034	2292	1	4	******	2692	0	0	0.9	1588	8	50	16.7	460	2	43	32.7
035-039	2482	0	0	******	3414	0	0	1.5	2332	1	4	17.5	760	1	13	32.3
040-044	2008	0	0	******	3150	2	6	2.7	2694	1	4	18.4	854	2	23	31.8
045-049	886	1	11	******	1690	0	0	4.6	1850	4	22	19.3	706	5	71	31.3
050-054	382	0	0	******	970	1	10	8.1	1040	3	29	20.2	394	0	0	30.9
055-059	224	0	0	******	432	2	46	13.9	478	2	42	21.2	208	1	48	30.5
060-064	66	0	0	******	206	0	0	23.4	236	1	42	22.2	66	0	0	30.1
065-069	32	0	0	******	98	0	0	42.2	142	0	0	23.3	36	0	0	29.6
070-104	26	0	0	******	28	0	0	81.6	64	0	0	25.0	38	0	0	28.8
UNKNOWN	1032	0			1032	1			466	2			72	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.002	0.112	-0.012	0.010	0.006	-0.003
SE(B)	******	******	0.022	0.041	0.016	0.023	0.026	0.032
A	*******	*******	-5.565	-12.245	-3.972	-6.010	-4.739	-4.927

TABLE 10-8-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	861	879	893	20	13	11	23	15	12	1095	1126	1082	5	5	3	5	4	3	
052-084	97	85	73	2	2	1	21	24	14	196	196	174	1	1	0	5	5	0	MEN
085-089	78	77	83	5	0	1	64	0	12	129	150	159	0	0	0	0	0	0	B 0.005 -0.011 -0.009
090-094	105	114	94	0	1	1	0	9	11	153	179	166	1	0	0	7	0	0	SE(B) 0.016 0.021 0.022
095-099	121	135	141	1	5	2	8	37	14	153	155	141	0	2	1	0	13	7	A -4.288 -3.115 -3.433
100-104	108	104	118	2	1	1	19	10	8	120	110	130	2	1	1	17	9	8	
105-109	112	105	117	3	1	4	27	10	34	96	92	84	1	0	0	10	0	0	WOMEN
110-114	88	100	107	4	2	0	45	20	0	64	59	60	0	0	0	0	0	0	B -0.010 0.017*******
115-119	58	63	58	0	0	0	0	0	0	45	57	45	0	0	0	0	0	0	SE(B) 0.028 0.022 ******
120-124	39	40	43	0	0	0	0	0	0	29	39	37	0	0	0	0	0	0	A -4.388 -7.075*******
125-226	51	51	54	3	1	1	59	20	19	99	76	76	0	1	1	0	13	13	
UNKNOWN	4	5	5	0	0	0				11	13	10	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	726	745	731	33	28	21	45	38	29	878	906	940	18	11	10	21	12	11	
052-084	56	65	64	3	3	2	54	46	31	69	82	93	3	4	3	43	49	32	MEN
085-089	50	50	52	4	4	3	80	80	58	56	75	90	2	2	1	36	27	11	B -0.027 -0.007 0.010
090-094	103	81	81	7	2	2	68	25	25	83	89	109	2	0	1	24	0	9	SE(B) 0.015 0.015 0.016
095-099	98	120	94	3	4	1	31	33	11	124	120	141	1	1	1	8	8	7	A -0.373 -2.523 -4.594
100-104	109	107	116	6	6	4	55	56	34	125	126	120	2	1	2	16	8	17	
105-109	120	107	109	6	4	2	50	37	18	100	101	100	2	1	0	20	10	0	WOMEN
110-114	68	91	85	2	1	2	29	11	24	80	84	81	1	2	1	13	24	12	B -0.005 -0.060 -0.044
115-119	52	54	61	1	0	1	19	0	16	62	68	60	1	0	1	16	0	17	SE(B) 0.014 0.022 0.023
120-124	23	29	26	1	2	0	43	69	0	52	46	35	1	0	0	19	0	0	A -3.281 1.506 -0.211
125-226	43	37	40	0	2	4	0	54	100	122	111	108	3	0	0	25	0	0	
UNKNOWN	4	4	3	0	0	0				5	4	3	0	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	339	488	569	28	37	37	83	76	65	434	606	730	19	22	22	44	36	30	
052-084	46	51	47	5	7	4	109	137	85	30	40	50	0	0	2	0	0	40	MEN
085-089	23	33	41	2	2	5	87	61	122	25	38	48	0	2	3	0	53	63	B 0.002 -0.010 -0.024
090-094	30	48	59	2	2	6	67	42	102	39	57	63	2	1	1	51	18	16	SE(B) 0.014 0.013 0.013
095-099	53	83	87	4	8	3	75	96	34	47	72	100	4	3	2	85	42	20	A -2.648 -1.453 -0.233
100-104	52	66	87	2	4	6	38	61	69	50	84	103	1	2	3	20	24	29	
105-109	34	61	84	1	4	5	29	66	60	39	55	82	0	2	2	0	36	24	WOMEN
110-114	38	59	75	7	3	4	184	51	53	47	64	57	2	1	1	43	16	18	B 0.011 0.017 0.006
115-119	24	41	37	1	3	3	42	73	81	41	44	61	4	3	3	98	68	49	SE(B) 0.011 0.009 0.011
120-124	20	24	24	2	4	0	100	167	0	29	47	44	2	2	0	69	43	0	A -4.335 -5.213 -4.074
125-226	15	19	27	2	0	1	133	0	37	85	104	119	4	6	5	47	58	42	
UNKNOWN	4	3	1	0	0	0				2	1	3	0	0	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 10-8-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9114	3	3		12580	20	16		8968	46	51		2652	15	57	
052-084	768	0	0	******	982	0	0	41.2	744	7	94	63.4	274	5	182	94.4
085-089	740	0	0	******	938	5	53	28.0	570	2	35	58.8	210	0	0	76.1
090-094	998	0	0	******	1350	7	52	22.2	910	7	77	56.2	264	0	0	67.6
095-099	1432	0	0	******	1762	2	11	17.6	1410	4	28	53.8	398	3	75	60.2
100-104	1220	0	0	******	1894	4	21	14.0	1480	7	47	51.4	376	0	0	53.9
105-109	1190	0	0	******	1826	1	5	11.2	1302	6	46	49.2	372	4	108	48.4
110-114	1046	1	10	******	1450	1	7	8.9	1016	6	59	47.1	334	0	0	42.9
115-119	646	0	0	******	924	0	0	7.0	658	3	46	45.0	172	1	58	38.8
120-124	432	0	0	******	594	0	0	5.6	474	2	42	43.0	98	2	204	34.1
125-226	592	2	34	******	796	0	0	3.6	372	2	54	39.0	140	0	0	27.0
UNKNOWN	50	0			64	0			32	0			14	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11252	2	2		15866	6	4		11918	23	19		3848	12	31	
052-084	1924	0	0	******	1700	0	0	1.8	930	3	32	19.7	416	1	24	30.8
085-089	1536	0	0	******	1704	0	0	2.2	922	5	54	19.6	238	0	0	30.9
090-094	1732	0	0	******	1942	0	0	2.5	1178	1	8	19.5	350	2	57	31.0
095-099	1578	1	6	******	2332	0	0	2.9	1630	1	6	19.5	480	2	42	31.1
100-104	1224	0	0	******	1964	2	10	3.2	1522	1	7	19.4	478	1	21	31.2
105-109	842	0	0	******	1602	1	6	3.7	1334	1	7	19.4	434	2	46	31.3
110-114	628	0	0	******	1226	1	8	4.1	1152	4	35	19.3	316	1	32	31.4
115-119	502	0	0	******	914	1	11	4.7	836	1	12	19.3	284	0	0	31.5
120-124	326	0	0	******	634	0	0	5.3	626	1	16	19.2	228	1	44	31.5
125-226	848	1	12	******	1746	1	6	9.4	1744	5	29	19.0	614	2	33	31.8
UNKNOWN	112	0			102	0			44	0			10	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.046	0.025	-0.009	-0.001	-0.023	0.001
SE(B)	******	******	0.018	0.015	0.012	0.011	0.019	0.015
A	*******	*******	-1.135	-9.879	-3.635	-5.493	-2.141	-5.130

TABLE 10-9-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	861	879	893	20	13	11	23	15	12	1095	1126	1082	5	5	3	5	4	3
05-14	1	0	1	0	0	0	0	****	0	9	12	7	0	0	0	0	0	0
15-19	1	5	3	0	1	0	0	200	0	62	46	28	0	0	0	0	0	0
20-24	12	13	9	0	0	1	0	0	111	234	190	190	1	0	0	4	0	0
25-29	42	44	29	2	1	1	48	23	34	415	476	411	1	2	0	2	4	0
30-34	156	127	135	8	0	3	51	0	22	285	310	332	2	3	3	7	10	9
35-39	249	255	248	6	6	3	24	24	12	70	81	96	1	0	0	14	0	0
40-44	237	269	256	4	4	2	17	15	8	10	7	15	0	0	0	0	0	0
45-49	115	119	146	0	1	1	0	8	7	2	2	1	0	0	0	0	0	0
50-54	33	38	56	0	0	0	0	0	0	1	0	0	0	0	0	0	****	****
55-61	5	7	9	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
UNKNOWN	10	2	1	0	0	0				7	2	2	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	726	745	731	33	28	21	45	38	29	878	906	940	18	11	10	21	12	11
05-14	1	1	0	0	0	0	0	0	****	20	30	22	1	0	0	50	0	0
15-19	3	5	5	0	0	1	0	0	200	109	117	92	2	2	3	18	17	33
20-24	25	17	18	4	2	0	160	118	0	327	305	310	10	5	4	31	16	13
25-29	75	72	85	4	4	1	53	56	12	275	314	339	3	4	3	11	13	9
30-34	174	203	196	5	8	7	29	39	36	125	123	153	2	0	0	16	0	0
35-39	227	233	211	8	9	8	35	39	38	16	15	22	0	0	0	0	0	0
40-44	148	157	153	11	5	4	74	32	26	2	1	2	0	0	0	0	0	0
45-49	53	44	49	1	0	0	19	0	0	0	0	0	0	0	0	****	****	****
50-54	15	11	11	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
55-61	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
UNKNOWN	3	0	1	0	0	0				4	1	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	339	488	569	28	37	37	83	76	65	434	606	730	19	22	22	44	36	30
05-14	1	3	4	1	1	0	1000	333	0	26	46	52	2	2	2	77	43	38
15-19	3	14	7	0	2	0	0	143	0	84	140	154	7	7	8	83	50	52
20-24	19	37	41	1	5	6	53	135	146	206	254	310	8	6	9	39	24	29
25-29	68	87	105	8	6	7	118	69	67	85	140	167	2	6	2	24	43	12
30-34	104	138	170	10	13	14	96	94	82	23	23	41	0	1	1	0	43	24
35-39	96	142	165	7	5	6	73	35	36	4	2	5	0	0	0	0	0	0
40-44	32	50	59	1	4	4	31	80	68	0	0	0	0	0	0	****	****	****
45-49	8	13	12	0	1	0	0	77	0	0	0	0	0	0	0	****	****	****
50-54	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
55-61	0	0	0	0	0	0	****	****	****	0	0	0	0	0	0	****	****	****
UNKNOWN	7	3	2	0	0	0				6	1	1	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	-0.087	-0.042	-0.089
SE(B)	0.034	0.042	0.043
A	-0.504	-2.598	-1.014
WOMEN			
B	0.094	0.060	******
SE(B)	0.079	0.090	******
A	-8.060	-7.126	******
AGE 45-54 AT EXAM			
MEN			
B	-0.024	-0.056	-0.028
SE(B)	0.027	0.030	0.035
A	-2.188	-1.295	-2.533
WOMEN			
B	-0.054	-0.038	-0.091
SE(B)	0.047	0.058	0.061
A	-2.587	-3.490	-2.375
AGE 55-64 AT EXAM			
MEN			
B	-0.068	-0.042	-0.040
SE(B)	0.034	0.025	0.026
A	-0.208	-1.170	-1.389
WOMEN			
B	-0.122	-0.016	-0.061
SE(B)	0.049	0.043	0.041
A	-0.560	-2.945	-2.181

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 10-9-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9114	3	3		12580	20	16		8968	46	51		2652	15	57	
05-14	6	0	0	******	10	0	0	32.6	28	1	357	204.7	14	0	0	154.4
15-19	28	0	0	******	76	0	0	26.9	116	1	86	138.4	80	0	0	118.3
20-24	96	0	0	******	308	1	32	23.3	512	7	137	101.7	274	3	109	88.6
25-29	338	0	0	******	1120	3	27	20.4	1626	11	68	72.3	652	6	92	66.7
30-34	1352	1	7	******	2842	3	11	17.9	2564	11	43	52.4	926	5	54	50.2
35-39	2478	1	4	******	3856	7	18	15.6	2528	8	32	37.7	502	0	0	37.6
40-44	2642	0	0	******	2870	6	21	13.7	1170	7	60	27.4	156	1	64	28.6
45-49	1406	1	7	******	1122	0	0	12.0	304	0	0	19.4	30	0	0	21.2
50-54	612	0	0	******	308	0	0	10.4	80	0	0	13.6	4	0	0	16.8
55-61	130	0	0	******	60	0	0	9.1	10	0	0	10.4	2	0	0	12.4
UNKNOWN	26	0			8	0			30	0			12	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11252	2	2		15866	6	4		11918	23	19		3848	12	31	
05-14	56	0	0	******	218	1	46	25.9	544	1	18	33.6	424	3	71	62.0
15-19	362	0	0	******	1222	1	8	10.6	2214	7	32	24.5	1156	4	35	37.3
20-24	1834	0	0	******	4584	1	2	5.0	5026	11	22	19.5	1560	4	26	25.2
25-29	4398	1	2	******	6032	3	5	2.4	3210	3	9	15.3	610	1	16	16.7
30-34	3328	1	3	******	3160	0	0	1.2	802	1	12	12.1	94	0	0	11.0
35-39	1078	0	0	******	570	0	0	0.5	102	0	0	9.4	4	0	0	7.7
40-44	144	0	0	******	56	0	0	0.2	2	0	0	7.2	0	0	*****	******
45-49	16	0	0	******	8	0	0	0.1	2	0	0	5.3	0	0	*****	******
50-54	2	0	0	******	0	0	*****	******	0	0	*****	******	0	0	*****	******
55-61	2	0	0	******	0	0	*****	******	0	0	*****	******	0	0	*****	******
UNKNOWN	32	0			16	0			16	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.028	-0.159	-0.069	-0.052	-0.060	-0.089
SE(B)	******	******	0.033	0.076	0.022	0.041	0.042	0.058
A	*******	*******	-4.731	-3.397	-2.335	-4.413	-2.681	-3.358

TABLE 10-10-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	861	879	893	20	13	11	23	15	12	1095	1126	1082	5	5	3	5	4	3	
NONE	0	121	119	0	1	1	****	8	8	0	331	310	0	2	1	****	6	3	MEN
000-009	0	254	273	0	3	4	****	12	15	0	447	441	0	2	2	****	4	5	B******* 0.008 -0.001
010-019	0	128	126	0	3	2	****	23	16	0	101	98	0	0	0	****	0	0	SE(B)****** 0.004 0.008
020-029	0	76	74	0	0	0	****	0	0	0	61	55	0	1	0	****	16	0	A******* -4.348 -4.262
030-039	0	45	54	0	2	2	****	44	37	0	35	32	0	0	0	****	0	0	
040-049	0	46	45	0	0	0	****	0	0	0	15	13	0	0	0	****	0	0	WOMEN
050-059	0	26	26	0	0	0	****	0	0	0	8	7	0	0	0	****	0	0	B******* -0.010*******
060-069	0	23	21	0	2	1	****	87	48	0	21	22	0	0	0	****	0	0	SE(B)****** 0.035 ******
070-079	0	16	15	0	0	0	****	0	0	0	5	5	0	0	0	****	0	0	A******* -5.249*******
080-457	0	60	58	0	2	1	****	33	17	0	10	9	0	0	0	****	0	0	
UNKNOWN	861	84	82	20	0	0				1095	92	90	5	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	726	745	731	33	28	21	45	38	29	878	906	940	18	11	10	21	12	11	
NONE	0	136	124	0	6	2	****	44	16	0	376	370	0	5	5	****	13	14	MEN
000-009	0	204	200	0	9	8	****	44	40	0	313	340	0	4	3	****	13	9	B******* 0.001 0.008
010-019	0	77	78	0	1	1	****	13	13	0	54	54	0	0	0	****	0	0	SE(B)****** 0.005 0.004
020-029	0	55	61	0	2	2	****	36	33	0	35	39	0	0	1	****	0	26	A******* -3.303 -3.709
030-039	0	65	62	0	1	0	****	15	0	0	31	34	0	1	1	****	32	29	
040-049	0	35	35	0	0	0	****	0	0	0	16	17	0	1	0	****	63	0	WOMEN
050-059	0	29	25	0	1	1	****	34	40	0	4	3	0	0	0	****	0	0	B******* 0.008 0.001
060-069	0	23	30	0	1	2	****	43	67	0	7	10	0	0	0	****	0	0	SE(B)****** 0.017 0.021
070-079	0	6	8	0	1	1	****	167	125	0	1	1	0	0	0	****	0	0	A******* -4.388 -4.469
080-457	0	51	43	0	3	3	****	59	70	0	7	7	0	0	0	****	0	0	
UNKNOWN	726	64	65	33	3	1				878	62	65	18	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	339	488	569	28	37	37	83	76	65	434	606	730	19	22	22	44	36	30	
NONE	0	114	128	0	7	10	****	61	78	0	299	356	0	11	10	****	37	28	MEN
000-009	0	146	163	0	14	11	****	96	67	0	185	224	0	8	8	****	43	36	B******* -0.004 -0.005
010-019	0	38	53	0	3	4	****	79	75	0	19	33	0	0	0	****	0	0	SE(B)****** 0.005 0.006
020-029	0	22	27	0	1	0	****	45	0	0	20	26	0	0	0	****	0	0	A******* -2.378 -2.563
030-039	0	35	42	0	5	5	****	143	119	0	19	21	0	1	1	****	53	48	
040-049	0	22	28	0	1	1	****	45	36	0	5	7	0	0	1	****	0	143	WOMEN
050-059	0	12	17	0	0	0	****	0	0	0	2	4	0	0	0	****	0	0	B******* 0.011 0.015
060-069	0	8	8	0	0	0	****	0	0	0	1	1	0	1	1	****	1000	1000	SE(B)****** 0.009 0.008
070-079	0	12	12	0	2	1	****	167	83	0	2	1	0	0	0	****	0	0	A******* -3.264 -3.504
080-457	0	35	45	0	2	2	****	57	44	0	5	5	0	1	1	****	200	200	
UNKNOWN	339	44	46	28	2	3				434	49	52	19	0	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 10-10-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9114	3	3		12580	20	16		8968	46	51		2652	15	57	
NONE	1016	0	0	******	1818	2	11	12.2	1826	13	71	62.5	606	2	33	65.0
000-009	2286	1	4	******	3032	3	10	12.4	2256	17	75	61.4	708	4	56	64.3
010-019	1030	0	0	******	1302	1	8	13.3	796	2	25	57.5	236	4	169	61.8
020-029	596	0	0	******	836	2	24	14.2	508	1	20	53.9	186	0	0	59.2
030-039	436	0	0	******	890	1	11	15.0	624	1	16	51.1	208	3	144	57.4
040-049	386	0	0	******	612	1	16	16.2	476	1	21	47.5	124	0	0	54.8
050-059	160	0	0	******	262	0	0	17.1	188	2	106	44.7	70	1	143	52.8
060-069	262	1	38	******	512	1	20	18.1	366	1	27	42.2	106	0	0	51.1
070-079	136	0	0	******	258	0	0	19.6	152	2	132	39.3	44	0	0	48.7
080-457	566	0	0	******	1002	5	50	29.0	656	3	46	30.4	234	1	43	40.6
UNKNOWN	2240	1			2056	4			1120	3			130	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11252	2	2		15866	6	4		11918	23	19		3848	12	31	
NONE	2526	0	0	******	4638	3	6	******	5092	9	18	18.9	2014	7	35	30.9
000-009	3734	2	5	******	5400	0	0	******	3578	7	20	19.2	1070	3	28	31.6
010-019	848	0	0	******	1050	0	0	******	480	0	0	20.6	160	0	0	34.7
020-029	458	0	0	******	636	0	0	******	398	1	25	21.7	150	1	67	37.8
030-039	384	0	0	******	734	0	0	******	492	3	61	22.9	142	0	0	41.0
040-049	136	0	0	******	268	0	0	******	180	0	0	24.7	60	0	0	45.1
050-059	66	0	0	******	88	0	0	******	62	0	0	26.0	14	0	0	49.8
060-069	204	0	0	******	324	0	0	******	120	1	83	27.5	26	1	385	54.0
070-079	46	0	0	******	94	0	0	******	34	0	0	30.0	16	0	0	61.1
080-457	94	0	0	******	188	0	0	******	130	0	0	36.4	12	0	0	92.5
UNKNOWN	2756	0			2446	3			1352	2			184	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.006	*******	-0.006	0.006	-0.004	0.009
SE(B)	******	******	0.004	******	0.005	0.010	0.008	0.016
A	*******	*******	-6.016	*******	-4.369	-5.573	-4.330	-5.080

TABLE 10-11-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	861	879	893	20	13	11	23	15	12	1095	1126	1082	5	5	3	5	4	3
NONE	242	244	256	3	1	1	12	4	4	533	523	495	1	1	0	2	2	0
UNDER 20	146	145	140	5	5	5	34	34	36	358	378	372	2	1	0	6	3	0
20	253	256	262	8	4	3	32	16	11	152	172	162	2	2	2	13	12	12
OVER 20	216	228	230	4	3	2	19	13	9	44	47	47	0	1	1	0	21	21
UNKNOWN	4	6	5	0	0	0				8	6	6	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	726	745	731	33	28	21	45	38	29	878	906	940	18	11	10	21	12	11
NONE	280	271	262	6	3	3	21	11	11	599	587	572	12	7	7	20	12	12
UNDER 20	116	115	114	6	5	2	52	43	18	179	207	236	3	3	2	17	14	8
20	170	188	182	11	11	9	65	59	49	71	80	98	3	1	1	42	13	10
OVER 20	152	162	165	9	8	7	59	49	42	23	29	31	0	0	0	0	0	0
UNKNOWN	8	9	8	1	1	0				6	3	3	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	339	488	569	28	37	37	83	76	65	434	606	730	19	22	22	44	36	30
NONE	163	234	252	8	12	9	49	51	36	345	465	540	13	14	13	38	30	24
UNDER 20	66	92	113	10	11	12	152	120	106	63	97	130	3	4	5	48	41	38
20	73	103	128	4	7	7	55	68	55	16	29	40	1	2	2	63	69	50
OVER 20	35	57	74	6	7	8	171	123	108	8	11	16	2	2	2	250	182	125
UNKNOWN	2	2	2	0	0	1				2	4	4	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.104	0.121	0.016
SE(B)	0.199	0.246	0.262
A	-3.899	-4.387	-4.403
WOMEN			
B	0.546	0.907	1.751
SE(B)	0.451	0.449	0.717
A	-5.896	-6.461	-8.622
AGE 45-54 AT EXAM			
MEN			
B	0.333	0.428	0.460
SE(B)	0.155	0.175	0.201
A	-3.560	-3.954	-4.268
WOMEN			
B	0.090	-0.083	-0.289
SE(B)	0.300	0.405	0.463
A	-3.902	-4.356	-4.391
AGE 55-64 AT EXAM			
MEN			
B	0.317	0.245	0.296
SE(B)	0.177	0.151	0.152
A	-2.747	-2.763	-3.046
WOMEN			
B	0.559	0.555	0.513
SE(B)	0.268	0.242	0.234
A	-3.302	-3.520	-3.720

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 10-11-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9114	3	3		12580	20	16		8968	46	51		2652	15	57	
NONE	2844	2	7	8.2	4684	3	6	9.8	4340	12	28	27.6	1580	7	44	55.2
UNDER 20	1416	1	7	2.7	1806	3	17	13.4	1486	9	61	43.6	508	5	98	57.3
20	2472	0	0	0.9	2972	9	30	18.2	1758	7	40	68.7	334	3	90	59.5
OVER 20	2330	0	0	0.3	3046	5	16	24.9	1340	17	127	107.9	222	0	0	61.7
UNKNOWN	52	0			72	0			44	1			8	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11252	2	2		15866	6	4		11918	23	19		3848	12	31	
NONE	5180	0	0	0.1	9028	3	3	2.4	8552	16	19	17.5	3082	6	19	23.6
UNDER 20	3606	0	0	0.5	3752	0	0	4.0	2060	4	19	21.6	532	5	94	45.3
20	1770	1	6	3.1	2180	2	9	6.5	868	0	0	26.7	158	0	0	86.5
OVER 20	638	1	16	19.6	844	1	12	10.6	394	3	76	33.1	58	1	172	164.2
UNKNOWN	58	0			62	0			44	0			18	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	-1.129	1.860	0.312	0.490	0.460	0.214	0.038	0.656
SE(B)	0.821	0.965	0.191	0.378	0.127	0.236	0.259	0.303
A	-6.406	-11.118	-6.234	-7.626	-5.193	-5.654	-4.494	-5.351

TABLE 10-12-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: ALBUMIN IN URINE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	861	879	893	20	13	11	23	15	12	1095	1126	1082	5	5	3	5	4	3	
																			MEN
NO	819	865	874	18	12	10	22	14	11	992	1081	1032	4	5	3	4	5	3	B 0.384 1.236 1.007
POSSIBLE	2	0	3	0	0	0	0	****	0	7	1	5	0	0	0	0	0	0	SE(B) 0.530 0.559 0.552
DEFINITE	21	7	12	1	1	1	48	143	83	72	40	42	1	0	0	14	0	0	A -3.797 -4.264 -4.464
UNKNOWN	19	7	4	1	0	0				24	4	3	0	0	0				WOMEN
																			B 0.613**********
																			SE(B) 0.567 ****** ******
																			A -5.516**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	726	745	731	33	28	21	45	38	29	878	906	940	18	11	10	21	12	11	
																			MEN
NO	692	733	722	33	27	21	48	37	29	800	867	895	14	10	9	18	12	10	B******* 0.533*******
POSSIBLE	1	0	0	0	0	0	0	****	****	7	4	6	1	0	1	143	0	167	SE(B)****** 0.536 ******
DEFINITE	24	10	9	0	1	0	0	100	0	61	33	38	3	1	0	49	30	0	A******* -3.264*******
UNKNOWN	9	2	0	0	0	0				10	2	1	0	0	0				WOMEN
																			B 0.583 0.475 0.075
																			SE(B) 0.308 0.537 0.743
																			A -4.000 -4.455 -4.539
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	339	488	569	28	37	37	83	76	65	434	606	730	19	22	22	44	36	30	
																			MEN
NO	318	469	545	28	35	37	88	75	68	402	583	698	18	21	21	45	36	30	B******* 0.309*******
POSSIBLE	1	1	6	0	0	0	0	0	0	0	1	2	0	0	0	****	0	0	SE(B)****** 0.392 ******
DEFINITE	13	15	16	0	2	0	0	133	0	24	18	27	1	1	1	42	56	37	A******* -2.519*******
UNKNOWN	7	3	2	0	0	0				8	4	3	0	0	0				WOMEN
																			B -0.038 0.216 0.091
																			SE(B) 0.525 0.529 0.526
																			A -3.060 -3.288 -3.475

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 10-12-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: ALBUMIN IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9114	3	3		12580	20	16		8968	46	51		2652	15	57	
NO	8868	2	2	2.2	12290	19	15	15.4	8502	44	52	52.1	2476	14	57	58.4
POSSIBLE	20	0	0	12.2	40	0	0	26.1	82	1	122	44.3	20	1	500	42.2
DEFINITE	150	1	67	65.9	214	1	47	44.3	350	1	29	37.7	150	0	0	30.5
UNKNOWN	76	0			36	0			34	0			6	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11252	2	2		15866	6	4		11918	23	19		3848	12	31	
NO	10636	2	2	******	15140	5	3	3.3	11380	20	18	18.3	3660	12	33	******
POSSIBLE	90	0	0	******	134	0	0	7.5	120	2	167	29.7	34	0	0	******
DEFINITE	450	0	0	******	554	1	18	17.1	378	1	26	48.2	140	0	0	******
UNKNOWN	76	0			38	0			40	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	1.697	*******	0.530	0.830	-0.164	0.487	-0.327	*******
SE(B)	0.618	******	0.522	0.557	0.430	0.381	0.738	******
A	-7.710	*******	-5.779	-7.332	-4.553	-5.607	-4.438	*******

TABLE 10-13-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: SUGAR IN URINE

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	861	879	893	20	13	11	23	15	12	1095	1126	1082	5	5	3	5	4	3
NO	821	868	883	17	11	10	21	13	11	1059	1118	1074	5	5	3	5	4	3
POSSIBLE	13	2	0	1	1	0	77	500	****	7	0	0	0	0	0	0	****	****
DEFINITE	8	2	6	1	1	1	125	500	167	5	4	5	0	0	0	0	0	0
UNKNOWN	19	7	4	1	0	0				24	4	3	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	726	745	731	33	28	21	45	38	29	878	906	940	18	11	10	21	12	11
NO	687	719	709	30	26	20	44	36	28	848	894	926	17	10	9	20	11	10
POSSIBLE	20	11	11	0	1	1	0	91	91	11	1	2	0	0	0	0	0	0
DEFINITE	10	13	11	3	1	0	300	77	0	9	9	11	1	1	1	111	111	91
UNKNOWN	9	2	0	0	0	0				10	2	1	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	339	488	569	28	37	37	83	76	65	434	606	730	19	22	22	44	36	30
NO	317	472	547	26	34	35	82	72	64	412	585	712	18	21	20	44	36	28
POSSIBLE	9	2	4	1	0	0	111	0	0	5	4	1	0	0	0	0	0	0
DEFINITE	6	11	16	1	3	2	167	273	125	9	13	14	1	1	2	111	77	143
UNKNOWN	7	3	2	0	0	0				8	4	3	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	1.025	2.535	1.430
SE(B)	0.487	0.728	0.570
A	-3.848	-4.323	-4.469
WOMEN			
B	**********	**********	**********
SE(B)	******	******	******
A	**********	**********	**********
AGE 45-54 AT EXAM			
MEN			
B	0.879	0.486	0.034
SE(B)	0.367	0.465	0.796
A	-3.121	-3.276	-3.522
WOMEN			
B	0.768	1.192	1.146
SE(B)	0.571	0.556	0.554
A	-3.903	-4.484	-4.627
AGE 55-64 AT EXAM			
MEN			
B	0.389	0.757	0.320
SE(B)	0.504	0.351	0.394
A	-2.416	-2.560	-2.688
WOMEN			
B	0.411	0.349	0.867
SE(B)	0.562	0.544	0.400
A	-3.095	-3.295	-3.546

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 10-13-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: SUGAR IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9114	3	3		12580	20	16		8968	46	51		2652	15	57	
NO	8926	3	3	******	12242	17	14	13.7	8628	39	45	45.5	2532	15	59	******
POSSIBLE	48	0	0	******	116	0	0	45.0	52	1	192	106.4	14	0	0	******
DEFINITE	72	0	0	******	188	3	160	145.7	254	6	236	245.0	100	0	0	******
UNKNOWN	68	0			34	0			34	0			6	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11252	2	2		15866	6	4		11918	23	19		3848	12	31	
NO	11094	2	2	******	15646	6	4	******	11656	18	15	15.3	3764	12	32	******
POSSIBLE	20	0	0	******	48	0	0	******	52	0	0	66.2	10	0	0	******
DEFINITE	62	0	0	******	136	0	0	******	174	5	287	277.5	60	0	0	******
UNKNOWN	76	0			36	0			36	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	1.196	*******	0.863	1.476	*******	*******
SE(B)	******	******	0.325	******	0.219	0.261	******	******
A	*******	*******	-5.899	*******	-4.691	-5.787	*******	*******

TABLE 10-14-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	861	879	893	20	13	11	23	15	12	1095	1126	1082	5	5	3	5	4	3
NO	768	778	812	16	12	9	21	15	11	953	1016	1012	5	5	3	5	5	3
POSSIBLE	26	34	43	1	0	2	38	0	47	56	39	36	0	0	0	0	0	0
DEFINITE	63	65	37	3	1	0	48	15	0	82	70	33	0	0	0	0	0	0
UNKNOWN	4	2	1	0	0	0				4	1	1	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	726	745	731	33	28	21	45	38	29	878	906	940	18	11	10	21	12	11
NO	575	645	644	27	24	19	47	37	30	627	683	759	14	8	9	22	12	12
POSSIBLE	23	41	42	0	2	0	0	49	0	61	79	100	1	2	0	16	25	0
DEFINITE	124	59	45	6	2	2	48	34	44	184	144	81	3	1	1	16	7	12
UNKNOWN	4	0	0	0	0	0				6	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	339	438	569	28	37	37	83	76	65	434	606	730	19	22	22	44	36	30
NO	240	370	457	15	27	30	63	73	66	252	364	468	7	11	10	28	30	21
POSSIBLE	17	44	50	1	2	4	59	45	80	33	80	115	3	3	4	91	38	35
DEFINITE	81	74	62	12	8	3	148	108	48	145	162	147	9	8	8	62	49	54
UNKNOWN	1	0	0	0	0	0				4	0	0	0	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.439	-0.123	0.221
SE(B)	0.312	0.559	0.582
A	-3.845	-4.176	-4.417
WOMEN			
B	**********	**********	**********
SE(B)	******	******	******
A	**********	**********	**********
AGE 45-54 AT EXAM			
MEN			
B	-0.021	0.003	0.037
SE(B)	0.237	0.337	0.415
A	-3.031	-3.243	-3.528
WOMEN			
B	-0.170	-0.078	-0.248
SE(B)	0.317	0.424	0.609
A	-3.785	-4.369	-4.474
AGE 55-64 AT EXAM			
MEN			
B	0.475	0.172	-0.093
SE(B)	0.207	0.216	0.273
A	-2.730	-2.575	-2.639
WOMEN			
B	0.410	0.255	0.485
SE(B)	0.246	0.237	0.241
A	-3.451	-3.472	-3.822

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 10-14-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9114	3	3		12580	20	16		8968	46	51		2652	15	57	
NO	8256	3	4	******	10658	17	16	15.2	6830	34	50	50.5	1710	11	64	60.7
POSSIBLE	384	0	0	******	914	0	0	18.2	950	6	63	52.6	422	1	24	52.8
DEFINITE	454	0	0	******	996	3	30	21.8	1186	6	51	54.8	520	3	58	45.9
UNKNOWN	20	0			12	0			2	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11252	2	2		15866	6	4		11918	23	19		3848	12	31	
NO	10334	2	2	******	12852	3	2	2.8	7498	13	17	17.3	1844	1	5	13.6
POSSIBLE	400	0	0	******	1390	2	14	5.3	1952	4	20	20.6	704	5	71	28.1
DEFINITE	502	0	0	******	1612	1	6	10.1	2460	6	24	24.4	1300	6	46	57.8
UNKNOWN	16	0			12	0			8	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.181	0.638	0.041	0.171	-0.142	0.727
SE(B)	******	******	0.343	0.467	0.205	0.244	0.345	0.356
A	*******	*******	-5.795	-7.479	-4.585	-5.661	-4.398	-5.903

TABLE 10-15-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	861	879	893	20	13	11	23	15	12	1095	1126	1082	5	5	3	5	4	3	
																			MEN
NO	836	844	862	19	12	9	23	14	10	1085	1107	1063	5	5	3	5	5	3	B 0.161 0.342 1.190
POSSIBLE	16	27	26	1	1	2	63	37	77	7	15	15	0	0	0	0	0	0	SE(B) 0.824 0.863 0.633
DEFINITE	9	8	5	0	0	0	0	0	0	3	4	4	0	0	0	0	0	0	A -3.746 -4.220 -4.493
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	726	745	731	33	28	21	45	38	29	878	906	940	18	11	10	21	12	11	
																			MEN
NO	691	695	679	32	25	19	46	36	28	847	861	903	14	8	9	17	9	10	B -0.099 0.233 -0.042
POSSIBLE	19	25	30	0	2	2	0	80	67	15	31	25	1	1	1	67	32	40	SE(B) 0.580 0.410 0.587
DEFINITE	16	25	22	1	1	0	63	40	0	16	14	12	3	2	0	188	143	0	A -3.038 -3.271 -3.517
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 1.319 1.421 0.450
																			SE(B) 0.338 0.412 0.826
																			A -4.082 -4.679 -4.565
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	339	488	569	28	37	37	83	76	65	434	606	730	19	22	22	44	36	30	
																			MEN
NO	305	427	503	20	28	29	66	66	58	416	549	649	16	18	14	38	33	22	B 0.831 0.599 0.497
POSSIBLE	14	30	30	3	3	3	214	100	100	8	33	44	2	2	4	250	61	91	SE(B) 0.268 0.240 0.247
DEFINITE	20	31	36	5	6	5	250	194	139	10	24	37	1	2	4	100	83	108	A -2.630 -2.664 -2.789
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 0.783 0.518 0.925
																			SE(B) 0.425 0.355 0.272
																			A -3.176 -3.378 -3.759

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 10-15-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9114	3	3		12580	20	16		8968	46	51		2652	15	57	
NO	8784	1	1	1.5	11792	16	14	14.7	7952	38	48	46.5	2230	12	54	52.8
POSSIBLE	260	1	38	16.6	516	4	78	26.6	572	2	35	72.0	214	1	47	67.3
DEFINITE	70	1	143	183.4	272	0	0	48.3	444	6	135	111.3	208	2	96	85.6
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11252	2	2		15866	6	4		11918	23	19		3848	12	31	
NO	11058	2	2	******	15332	5	3	3.1	10794	16	15	14.5	3280	7	21	21.7
POSSIBLE	138	0	0	******	386	0	0	12.6	688	2	29	39.5	326	2	61	53.3
DEFINITE	56	0	0	******	148	1	68	51.1	436	5	115	106.5	242	3	124	129.4
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	2.435	*******	0.598	1.406	0.443	1.007	0.245	0.903
SE(B)	0.630	******	0.416	0.595	0.228	0.260	0.384	0.338
A	-8.137	*******	-5.828	-7.384	-4.669	-5.841	-4.540	-5.434

TABLE 10-16-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	861	879	893	20	13	11	23	15	12	1095	1126	1082	5	5	3	5	4	3	
																			MEN
NO	841	858	868	19	12	11	23	14	13	1077	1110	1069	5	5	3	5	5	3	B 0.823 1.260*******
YES	20	21	25	1	1	0	50	48	0	18	16	13	0	0	0	0	0	0	SE(B) 1.052 1.065 ******
																			A -3.767 -4.256*******
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	726	745	731	33	28	21	45	38	29	878	906	940	18	11	10	21	12	11	
																			MEN
NO	699	724	704	31	27	21	44	37	30	856	870	908	18	10	10	21	11	11	B 0.545 0.255*******
YES	27	21	27	2	1	0	74	48	0	22	36	32	0	1	0	0	28	0	SE(B) 0.757 1.043 ******
																			A -3.070 -3.251*******
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B******* 0.899*******
																			SE(B)****** 1.063 ******
																			A******* -4.454*******
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	339	488	569	28	37	37	83	76	65	434	606	730	19	22	22	44	36	30	
																			MEN
NO	327	465	536	26	36	33	80	77	62	420	573	680	18	21	18	43	37	26	B 0.840 -0.613 0.743
YES	12	23	33	2	1	4	167	43	121	14	33	50	1	1	4	71	30	80	SE(B) 0.801 1.037 0.563
																			A -2.449 -2.478 -2.724
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 0.541 -0.197 1.163
																			SE(B) 1.065 1.040 0.573
																			A -3.106 -3.269 -3.605

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 1C-16-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9114	3	3		12580	20	16		8968	46	51		2652	15	57	
NO	8868	3	3	3.4	12018	15	12	12.5	8394	37	44	44.1	2418	14	58	57.9
YES	246	0	0	0.0	562	5	89	89.0	574	9	157	156.8	234	1	43	42.7
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11252	2	2		15866	6	4		11918	23	19		3848	12	31	
NO	11052	2	2	1.8	15322	6	4	3.9	11202	17	15	15.2	3514	10	28	28.5
YES	200	0	0	0.0	544	0	0	0.0	716	6	84	83.8	334	2	60	59.9
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	1.980	*******	1.292	1.723	-0.307	0.750
SE(B)	******	******	0.520	******	0.377	0.478	1.040	0.779
A	*******	*******	-5.990	*******	-4.722	-5.794	-4.447	-5.163

TABLE 10-17-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: DIABETES MELLITUS

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	861	879	893	20	13	11	23	15	12	1095	1126	1082	5	5	3	5	4	3
NO	849	869	883	16	10	8	19	12	9	1087	1120	1076	5	5	3	5	4	3
YES	12	10	10	4	3	3	333	300	300	8	6	6	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	726	745	731	33	28	21	45	38	29	878	906	940	18	11	10	21	12	11
NO	705	721	709	29	26	20	41	36	28	856	891	917	16	10	9	19	11	10
YES	21	24	22	4	2	1	190	83	45	22	15	23	2	1	1	91	67	43
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	339	488	569	28	37	37	83	76	65	434	606	730	19	22	22	44	36	30
NO	325	469	546	25	31	31	77	66	57	421	579	699	18	20	19	43	35	27
YES	14	19	23	3	6	6	214	316	261	13	27	31	1	2	3	77	74	97
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	3.259	3.606	3.847
SE(B)	0.662	0.760	0.776
A	-3.952	-4.453	-4.695
WOMEN			
B	**********	**********	**********
SE(B)	******	******	******
A	**********	**********	**********
AGE 45-54 AT EXAM			
MEN			
B	1.702	0.888	0.495
SE(B)	0.587	0.765	1.048
A	-3.149	-3.286	-3.540
WOMEN			
B	1.658	1.839	1.523
SE(B)	0.783	1.083	1.076
A	-3.961	-4.478	-4.614
AGE 55-64 AT EXAM			
MEN			
B	1.186	1.875	1.769
SE(B)	0.684	0.527	0.510
A	-2.485	-2.648	-2.810
WOMEN			
B	0.624	0.805	1.344
SE(B)	1.068	0.769	0.650
A	-3.109	-3.330	-3.578

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 10-17-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: DIABETES MELLITUS

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9114	3	3		12580	20	16		8968	46	51		2652	15	57	
NO	9018	3	3	3.3	12244	16	13	13.1	8544	36	42	42.1	2494	14	56	56.1
YES	96	0	0	0.0	336	4	119	119.0	424	10	236	235.8	158	1	63	63.3
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11252	2	2		15866	6	4		11918	23	19		3848	12	31	
NO	11174	2	2	1.8	15574	6	4	3.9	11460	18	16	15.7	3614	11	30	30.4
YES	78	0	0	0.0	292	0	0	0.0	458	5	109	109.2	234	1	43	42.7
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	******	******	2.231	******	1.762	1.958	0.121	0.342
SE(B)	******	******	0.565	******	0.365	0.510	1.042	1.049
A	******	******	-5.944	******	-4.768	-5.760	-4.478	-5.095

TABLE 10-18-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: HYPERTENSION

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	861	879	893	20	13	11	23	15	12	1095	1126	1082	5	5	3	5	4	3
NO	379	506	600	7	4	8	18	8	13	709	873	870	3	2	2	4	2	2
BORDER	353	265	209	9	6	1	25	23	5	291	187	169	1	2	1	3	11	6
DEFINITE	129	108	84	4	3	2	31	28	24	95	66	43	1	1	0	11	15	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	726	745	731	33	28	21	45	38	29	878	906	940	18	11	10	21	12	11
NO	288	373	399	7	11	9	24	29	23	310	418	512	3	5	4	10	12	8
BORDER	268	240	219	16	12	8	60	50	37	360	300	262	6	0	0	17	0	0
DEFINITE	170	132	113	10	5	4	59	38	35	208	188	166	9	6	6	43	32	36
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	339	488	569	28	37	37	83	76	65	434	606	730	19	22	22	44	36	30
NO	122	214	290	9	14	14	74	65	48	101	160	256	2	4	2	20	25	8
BORDER	127	165	171	12	12	15	94	73	88	176	231	249	8	6	6	45	26	24
DEFINITE	90	109	108	7	11	8	78	101	74	157	215	225	9	12	14	57	56	62
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.274	0.664	0.074
SE(B)	0.308	0.352	0.448
A	-3.952	-4.680	-4.417
WOMEN			
B	0.341	1.017	0.319
SE(B)	0.618	0.543	0.965
A	-5.560	-5.929	-5.975
AGE 45-54 AT EXAM			
MEN			
B	0.431	0.191	0.270
SE(B)	0.227	0.246	0.282
A	-3.457	-3.382	-3.705
WOMEN			
B	0.813	0.547	0.869
SE(B)	0.333	0.378	0.393
A	-4.767	-4.899	-5.321
AGE 55-64 AT EXAM			
MEN			
B	0.041	0.230	0.270
SE(B)	0.251	0.214	0.211
A	-2.445	-2.695	-2.868
WOMEN			
B	0.459	0.492	1.040
SE(B)	0.331	0.299	0.326
A	-3.656	-3.881	-4.784

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 10-18-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: HYPERTENSION

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9114	3	3		12580	20	16		8968	46	51		2652	15	57	
NO	5392	0	0	0.9	6534	7	11	11.7	4096	12	29	32.7	1070	8	75	69.1
BORDER	2676	2	7	3.7	3864	8	21	17.4	2858	18	63	53.2	986	4	41	52.8
DEFINITE	1046	1	10	14.4	2182	5	23	25.8	2014	16	79	86.4	596	3	50	40.2
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11252	2	2		15866	6	4		11918	23	19		3848	12	31	
NO	8550	1	1	0.8	8762	2	2	2.3	4180	6	14	9.9	876	0	0	6.3
BORDER	2038	0	0	2.9	4614	2	4	4.3	4294	4	9	17.9	1500	4	27	19.3
DEFINITE	664	1	15	10.5	2490	2	8	8.1	3444	13	38	32.4	1472	8	54	58.1
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	1.366	1.279	0.398	0.630	0.491	0.593	-0.274	1.113
SE(B)	0.770	0.845	0.277	0.499	0.182	0.276	0.353	0.516
A	-8.578	-8.717	-6.056	-7.687	-5.023	-6.220	-4.267	-6.668

TABLE 10-19-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: GLUCOSE INTOLERANCE

	- MEN -									- WOMEN -										LOGISTIC PARAMETERS		
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000					
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3		1	2	3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM			
TOTAL	861	879	893	20	13	11	23	15	12	1095	1126	1082	5	5	3	5	4	3				
																			MEN			
NO	822	860	874	15	10	8	18	12	9	1072	1110	1063	5	5	3	5	5	3	B	2.068	2.769	3.010
YES	39	19	19	5	3	3	128	158	158	23	16	19	0	0	0	0	0	0	SE(B)	0.545	0.705	0.722
																			A	-3.985	-4.443	-4.684
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0							
																			WOMEN			
																			B	**********	**********	**********
																			SE(B)	******	******	******
																			A	**********	**********	**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM			
TOTAL	726	745	731	33	28	21	45	38	29	878	906	940	18	11	10	21	12	11				
																			MEN			
NO	678	696	690	29	25	19	43	36	28	837	880	905	16	10	9	19	11	10	B	0.710	0.560	0.594
YES	49	49	41	4	3	2	83	61	49	41	26	35	2	1	1	49	38	29	SE(B)	0.556	0.630	0.761
																			A	-3.108	-3.290	-3.564
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0							
																			WOMEN			
																			B	0.968	1.247	1.074
																			SE(B)	0.768	1.068	1.068
																			A	-3.938	-4.466	-4.601
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM			
TOTAL	339	488	569	28	37	37	83	76	65	434	606	730	19	22	22	44	36	30				
																			MEN			
NO	313	457	527	22	29	29	70	63	55	402	564	678	18	20	19	45	35	28	B	1.378	1.636	1.396
YES	26	31	42	6	8	8	231	258	190	32	42	52	1	2	3	31	48	58	SE(B)	0.515	0.453	0.437
																			A	-2.582	-2.692	-2.843
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0							
																			WOMEN			
																			B	-0.374	0.307	0.753
																			SE(B)	1.044	0.759	0.639
																			A	-3.060	-3.303	-3.546

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 10-19-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: GLUCOSE INTOLERANCE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9114	3	3		12580	20	16		8968	46	51		2652	15	57	
NO	8836	3	3	3.4	11894	16	13	13.5	8272	34	41	41.1	2410	14	58	58.1
YES	278	0	0	0.0	686	4	58	58.3	696	12	172	172.4	242	1	41	41.3
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11252	2	2		15866	6	4		11918	23	19		3848	12	31	
NO	11066	2	2	1.8	15350	6	4	3.9	11168	16	14	14.3	3474	9	26	25.9
YES	186	0	0	0.0	516	0	0	0.0	750	7	93	93.3	374	3	80	80.2
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	1.476	*******	1.461	1.890	-0.344	1.141
SE(B)	******	******	0.562	******	0.341	0.456	1.040	0.671
A	*******	*******	-5.915	*******	-4.793	-5.852	-4.443	-5.257

TABLE 10-19-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: GLUCOSE INTOLERANCE

	- M E N -									- W O M E N -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	861	879	893	20	13	11	23	15	12	1095	1126	1082	5	5	3	5	4	3
NO	822	860	874	15	10	8	18	12	9	1072	1110	1063	5	5	3	5	5	3
YES	39	19	19	5	3	3	128	158	158	23	16	19	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	726	745	731	33	28	21	45	38	29	878	906	940	18	11	10	21	12	11
NO	678	696	690	29	25	19	43	36	28	837	880	905	16	10	9	19	11	10
YES	48	49	41	4	3	2	83	61	49	41	26	35	2	1	1	49	38	29
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	339	488	569	28	37	37	83	76	65	434	606	730	19	22	22	44	36	30
NO	313	457	527	22	29	29	70	63	55	402	564	678	18	20	19	45	35	28
YES	26	31	42	6	8	8	231	258	190	32	42	52	1	2	3	31	48	58
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	2.068	2.769	3.010
SE(B)	0.545	0.705	0.722
A	-3.985	-4.443	-4.684
WOMEN			
B	**********	**********	**********
SE(B)	******	******	******
A	**********	**********	**********
AGE 45-54 AT EXAM			
MEN			
B	0.710	0.560	0.594
SE(B)	0.556	0.630	0.761
A	-3.108	-3.290	-3.564
WOMEN			
B	0.968	1.247	1.074
SE(B)	0.768	1.068	1.068
A	-3.938	-4.466	-4.601
AGE 55-64 AT EXAM			
MEN			
B	1.378	1.636	1.396
SE(B)	0.515	0.453	0.437
A	-2.582	-2.692	-2.843
WOMEN			
B	-0.374	0.307	0.753
SE(B)	1.044	0.759	0.639
A	-3.060	-3.303	-3.546

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 10-19-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: INTERMITTENT CLAUDICATION
CHARACTERISTIC: GLUCOSE INTOLERANCE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9114	3	3		12580	20	16		8968	46	51		2652	15	57	
NO	8836	3	3	3.4	11894	16	13	13.5	8272	34	41	41.1	2410	14	58	58.1
YES	278	0	0	0.0	686	4	58	58.3	696	12	172	172.4	242	1	41	41.3
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11252	2	2		15866	6	4		11918	23	19		3848	12	31	
NO	11066	2	2	1.8	15350	6	4	3.9	11168	16	14	14.3	3474	9	26	25.9
YES	186	0	0	0.0	516	0	0	0.0	750	7	93	93.3	374	3	80	80.2
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	1.476	*******	1.461	1.890	-0.344	1.141
SE(B)	******	******	0.562	******	0.341	0.456	1.040	0.671
A	*******	*******	-5.915	*******	-4.793	-5.852	-4.443	-5.257

TABLE 11-1-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	895	16	11	10	18	12	11	1091	1125	1082	14	9	9	13	8	8
074-109	35	72	92	0	0	0	0	0	0	102	204	248	3	2	2	29	10	8
110-119	116	163	192	0	0	2	0	0	10	234	310	312	2	2	3	9	6	10
120-129	185	219	246	0	1	1	0	5	4	278	267	263	0	0	1	0	0	4
130-139	237	206	186	1	2	0	4	10	0	212	180	137	2	0	0	9	0	0
140-149	156	127	101	6	1	1	38	8	10	120	83	67	3	3	0	25	36	0
150-159	56	49	38	3	1	1	54	20	26	67	43	28	2	2	1	30	47	36
160-169	41	22	21	1	2	1	24	91	48	46	17	14	2	0	1	43	0	71
170-179	24	13	10	2	1	2	83	77	200	18	10	6	0	0	1	0	0	167
180-189	7	6	8	1	1	1	143	167	125	7	8	2	0	0	0	0	0	0
190-300	8	5	1	2	2	1	250	400	1000	7	3	5	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	729	746	734	33	28	23	45	38	31	876	905	939	28	21	14	32	23	15
074-109	23	49	53	0	1	2	0	20	38	23	50	104	0	0	1	0	0	10
110-119	86	122	138	3	0	0	35	0	0	66	129	165	0	2	0	0	16	0
120-129	149	164	166	3	3	3	20	18	18	141	156	175	3	1	0	21	6	0
130-139	141	167	146	3	6	1	21	36	7	177	181	172	2	2	4	11	11	23
140-149	127	110	109	5	6	4	39	55	37	134	128	104	3	2	2	22	16	19
150-159	76	60	54	4	1	5	53	17	93	110	95	84	2	3	1	18	32	12
160-169	54	33	32	6	6	3	111	182	94	79	64	51	2	1	2	25	16	39
170-179	30	15	18	1	0	1	33	0	56	54	32	40	4	2	2	74	63	50
180-189	18	12	7	2	0	3	111	0	429	41	34	20	1	5	1	24	147	50
190-300	25	14	11	6	5	1	240	357	91	51	36	24	11	3	1	216	83	42
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	345	492	580	28	32	33	81	65	57	436	610	730	19	30	31	44	49	42
074-109	10	25	48	1	1	2	100	40	42	13	17	28	0	0	1	0	0	36
110-119	24	54	82	1	3	1	42	56	12	17	38	55	0	0	0	0	0	0
120-129	53	81	110	3	4	7	57	49	64	40	64	111	1	1	0	25	16	0
130-139	66	105	110	4	1	2	61	10	18	67	86	125	1	5	5	15	58	40
140-149	60	69	65	4	3	3	67	43	46	61	80	92	0	1	4	0	13	43
150-159	51	53	62	2	5	4	39	94	65	66	104	90	2	2	0	30	19	0
160-169	25	39	39	3	3	5	120	77	128	44	70	64	4	6	5	91	86	78
170-179	23	20	17	3	3	1	130	150	59	45	50	59	5	1	6	111	20	102
180-189	11	14	15	1	2	2	91	143	133	26	35	45	2	5	3	77	143	67
190-300	22	32	32	6	7	6	273	219	188	57	66	61	4	9	7	70	136	115
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.058	0.075	0.068
SE(B)	0.011	0.014	0.015
A	-12.321	-15.074	-13.946
WOMEN			
B	0.009	0.018	0.025
SE(B)	0.013	0.014	0.014
A	-5.552	-7.051	-7.895
AGE 45-54 AT EXAM			
MEN			
B	0.030	0.037	0.038
SE(B)	0.007	0.007	0.009
A	-7.492	-8.549	-8.716
WOMEN			
B	0.028	0.024	0.024
SE(B)	0.005	0.005	0.008
A	-7.897	-7.280	-7.593
AGE 55-64 AT EXAM			
MEN			
B	0.018	0.024	0.020
SE(B)	0.006	0.006	0.006
A	-5.160	-6.269	-5.759
WOMEN			
B	0.017	0.026	0.023
SE(B)	0.006	0.006	0.005
A	-5.897	-7.143	-6.841

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 11-1-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9136	4	4		12642	24	19		9078	35	39		2772	17	61	
074-109	724	0	0	******	774	0	0	3.2	524	3	57	12.9	140	0	0	38.0
110-119	1750	0	0	******	2120	1	5	5.0	1120	2	18	16.7	240	3	125	43.2
120-129	2344	0	0	******	2744	1	4	7.5	1638	3	18	21.1	390	1	26	47.3
130-139	2084	1	5	******	2730	2	7	11.5	1730	5	29	27.0	514	1	19	52.9
140-149	1204	1	8	******	1822	3	16	17.6	1352	3	22	34.4	456	3	66	58.4
150-159	530	0	0	******	1112	6	54	26.9	962	2	21	43.9	358	2	56	64.5
160-169	256	0	0	******	608	5	82	40.6	654	3	46	55.4	234	3	128	71.3
170-179	140	1	71	******	334	0	0	61.4	434	1	23	70.4	136	1	74	78.9
180-189	64	0	0	******	202	2	99	96.1	268	2	75	88.4	120	1	83	88.1
190-300	40	1	250	******	196	4	204	246.7	396	11	278	162.0	184	2	109	113.9
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11254	4	4		15814	10	6		11912	32	27		3872	15	39	
074-109	2028	2	10	******	1396	0	0	2.6	448	1	22	6.3	72	0	0	4.4
110-119	2962	0	0	******	2686	0	0	3.3	1056	0	0	8.4	206	0	0	6.4
120-129	2708	1	4	******	3102	1	3	4.1	1584	2	13	10.8	324	0	0	8.7
130-139	1786	0	0	******	3084	4	13	5.1	1952	3	15	13.9	536	1	19	12.4
140-149	900	0	0	******	1990	1	5	6.4	1730	2	12	18.0	610	1	16	17.0
150-159	452	1	22	******	1402	1	7	8.0	1594	2	13	23.2	566	2	35	23.6
160-169	218	0	0	******	816	0	0	9.9	1152	3	26	29.9	480	2	42	32.4
170-179	96	0	0	******	524	0	0	12.4	860	5	58	38.4	382	0	0	45.1
180-189	56	0	0	******	392	1	26	15.4	648	4	62	49.3	280	3	107	62.6
190-300	48	0	0	******	422	2	47	33.8	888	10	113	108.9	416	6	144	155.9
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.043	0.022	0.025	0.026	0.010	0.033
SE(B)	******	******	0.007	0.008	0.005	0.005	0.008	0.008
A	*******	*******	-11.835	-9.841	-8.503	-9.329	-5.942	-10.475

TABLE 11-2-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	895	16	11	10	18	12	11	1091	1125	1082	14	9	9	13	8	8
020-069	44	80	93	1	0	0	23	0	0	104	204	230	3	3	2	29	15	9
070-074	110	137	153	1	1	2	9	7	13	198	251	263	1	1	1	5	4	4
075-079	71	93	117	0	0	1	0	0	9	136	154	187	2	0	0	15	0	0
080-084	195	210	186	2	1	0	10.	5	0	275	248	179	1	0	1	4	0	6
085-089	113	107	130	0	2	1	0	19	8	101	107	97	3	2	4	30	19	41
090-094	156	115	104	2	2	1	13	17	10	144	76	65	2	1	0	14	13	0
095-099	62	64	45	2	2	1	32	31	22	51	35	29	0	1	0	0	29	0
100-104	63	34	36	4	1	1	63	29	28	49	27	19	1	1	0	20	37	0
105-109	11	21	17	1	0	1	91	0	59	11	13	5	1	0	0	91	0	0
110-160	40	21	14	3	2	2	75	95	143	22	10	8	0	0	1	0	0	125
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	729	746	734	33	28	23	45	38	31	876	905	939	28	21	14	32	23	15
020-069	21	58	66	0	2	3	0	34	45	21	62	98	0	0	2	0	0	20
070-074	70	77	97	4	0	0	57	0	0	75	124	132	2	2	0	27	16	0
075-079	59	93	95	3	1	0	51	11	0	82	103	135	2	0	0	24	0	0
080-084	176	146	146	2	5	5	11	34	34	190	187	205	2	4	3	11	21	15
085-089	75	103	101	1	4	2	13	39	20	100	113	123	3	0	0	30	0	0
090-094	131	110	89	5	3	1	38	27	11	162	130	94	1	4	0	6	31	0
095-099	57	60	61	3	5	6	53	83	98	71	54	59	3	1	4	42	19	68
100-104	71	55	33	7	4	3	99	73	91	77	52	38	4	3	3	52	58	79
105-109	23	16	18	1	1	3	43	63	167	26	26	16	0	3	0	0	115	0
110-160	46	28	28	7	3	0	152	107	0	72	54	39	11	4	2	153	74	51
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	345	492	580	28	32	33	81	65	57	436	610	730	19	30	31	44	49	42
020-069	19	42	58	0	2	2	0	48	34	13	31	51	1	2	3	77	65	59
070-074	34	65	93	3	1	2	88	15	22	35	68	82	1	3	2	29	44	24
075-079	40	66	67	2	2	2	50	30	30	27	56	78	0	0	2	0	0	26
080-084	73	91	120	4	4	6	55	44	50	74	109	147	2	2	2	27	18	14
085-089	36	44	67	2	1	4	56	23	60	55	73	101	0	2	3	0	27	30
090-094	56	73	63	3	5	3	54	68	48	82	90	103	6	4	5	73	44	49
095-099	23	31	40	1	7	5	43	226	125	35	60	59	2	1	3	57	17	51
100-104	27	35	20	6	3	1	222	86	50	51	51	41	2	8	3	39	157	73
105-109	7	10	18	1	2	2	143	200	111	12	23	26	2	0	2	167	0	77
110-160	30	35	34	6	5	6	200	143	176	52	49	42	3	8	6	58	163	143
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.059	0.073	0.081
SE(B)	0.017	0.023	0.025
A	-9.268	-10.775	-11.591
WOMEN			
B	-0.005	0.008	0.042
SE(B)	0.024	0.029	0.023
A	-3.951	-5.428	-8.127
AGE 45-54 AT EXAM			
MEN			
B	0.044	0.047	0.034
SE(B)	0.012	0.015	0.016
A	-7.107	-7.424	-6.400
WOMEN			
B	0.060	0.048	0.044
SE(B)	0.012	0.013	0.016
A	-9.047	-8.043	-8.028
AGE 55-64 AT EXAM			
MEN			
B	0.040	0.042	0.037
SE(B)	0.012	0.012	0.011
A	-6.047	-6.448	-6.032
WOMEN			
B	0.027	0.040	0.039
SE(B)	0.013	0.012	0.012
A	-5.676	-6.654	-6.617

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 11-2-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9136	4	4		12642	24	19		9078	35	39		2772	17	61	
020-069	730	0	0	******	762	2	26	4.9	712	3	42	19.1	324	1	31	37.7
070-074	1328	0	0	******	1548	1	6	7.1	1230	2	16	23.5	462	2	43	45.4
075-079	1000	0	0	******	1290	1	8	9.5	956	1	10	27.5	300	2	67	51.1
080-084	2270	0	0	******	3028	1	3	12.4	1980	8	40	31.9	576	4	69	56.7
085-089	1238	0	0	******	1704	1	6	16.4	998	2	20	37.3	306	0	0	64.0
090-094	1190	0	0	******	1810	2	11	21.4	1284	7	55	43.1	346	3	87	71.2
095-099	558	1	18	******	858	4	47	28.0	606	4	66	50.2	132	0	0	79.1
100-104	472	1	21	******	892	5	56	35.9	640	1	16	57.7	168	3	179	87.6
105-109	136	0	0	******	284	3	106	48.0	186	1	54	68.0	36	0	0	101.6
110-160	214	2	93	******	466	4	86	84.2	486	6	123	93.8	122	2	164	129.3
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11254	4	4		15814	10	6		11912	32	27		3872	15	39	
020-069	1912	1	5	******	1396	0	0	2.7	754	3	40	6.3	294	1	34	13.3
070-074	2420	2	8	******	2454	0	0	3.6	1408	0	0	9.4	460	0	0	18.1
075-079	1592	0	0	******	1786	0	0	4.4	1072	1	9	12.4	336	0	0	22.7
080-084	2470	0	0	******	3680	4	11	5.2	2540	2	8	15.8	874	2	23	27.5
085-089	1104	0	0	******	1912	1	5	6.3	1480	3	20	20.7	386	0	0	34.3
090-094	880	0	0	******	2032	3	15	7.5	1904	4	21	26.9	632	5	79	41.8
095-099	362	0	0	******	798	0	0	8.9	800	3	38	34.8	292	2	68	51.3
100-104	288	1	35	******	812	1	12	10.7	926	5	54	44.7	310	2	65	62.4
105-109	100	0	0	******	270	0	0	13.1	298	1	34	58.7	66	1	152	77.5
110-160	126	0	0	******	674	1	15	20.6	730	10	137	109.7	222	2	90	121.8
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.055	0.037	0.030	0.053	0.023	0.042
SE(B)	******	******	0.014	0.019	0.011	0.011	0.016	0.017
A	*******	*******	-10.466	-9.865	-7.537	-10.043	-6.319	-8.607

TABLE 11-3-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	895	16	11	10	18	12	11	1091	1125	1082	14	9	9	13	8	8
096-189	140	173	173	0	3	2	0	17	12	212	334	331	1	1	1	5	3	3
190-204	94	100	116	1	1	0	11	10	0	133	205	187	2	2	2	15	10	11
205-219	58	136	141	1	1	1	17	7	7	85	153	155	1	0	0	12	0	0
220-234	108	144	133	2	2	3	19	14	23	97	135	131	1	0	2	10	0	15
235-249	50	95	100	1	0	0	20	0	0	50	89	95	1	2	2	20	22	21
250-264	53	72	76	0	1	1	0	14	13	46	56	57	3	1	1	65	18	18
265-279	29	54	48	1	1	0	34	19	0	22	55	36	0	0	0	0	0	0
280-294	18	32	37	0	0	0	0	0	0	16	28	29	0	1	0	0	36	0
295-309	12	20	23	0	0	1	0	0	43	6	17	25	0	0	0	0	0	0
310-696	18	29	34	1	1	1	56	34	29	3	15	14	0	1	1	0	67	71
UNKNOWN	285	27	14	9	1	1				421	38	22	5	1	0			
AGE 45-54 AT EXAM																		
TOTAL	729	746	734	33	28	23	45	38	31	876	905	939	28	21	14	32	23	15
096-189	77	94	91	3	2	3	39	21	33	73	102	108	4	3	1	55	29	9
190-204	58	95	84	2	1	0	34	11	0	42	91	97	0	2	2	0	22	21
205-219	51	111	130	1	4	3	20	36	23	55	116	116	3	1	1	55	9	9
220-234	68	129	118	4	5	4	59	39	34	84	143	139	5	6	1	60	42	7
235-249	50	108	91	4	5	5	80	46	55	41	110	132	1	2	4	24	18	30
250-264	39	71	86	0	5	2	0	70	23	36	82	98	0	5	3	0	61	31
265-279	27	46	50	2	2	2	74	43	40	41	76	77	1	1	1	24	13	13
280-294	27	39	32	6	1	1	222	26	31	31	58	56	2	0	1	65	0	18
295-309	14	21	18	0	2	2	0	95	111	24	32	36	1	1	0	42	31	0
310-696	10	19	22	0	0	0	0	0	0	38	66	68	2	0	0	53	0	0
UNKNOWN	308	13	12	11	1	1				411	29	12	9	0	0			
AGE 55-64 AT EXAM																		
TOTAL	345	492	580	28	32	33	81	65	57	436	610	730	19	30	31	44	49	42
096-189	52	88	102	4	6	6	77	68	59	15	30	36	1	1	2	67	33	56
190-204	32	62	57	3	3	1	94	48	18	20	41	48	1	2	2	50	49	42
205-219	31	73	95	4	4	4	129	55	42	22	49	64	1	1	1	45	20	16
220-234	41	61	70	2	4	5	49	66	71	47	97	95	1	6	7	21	62	74
235-249	30	51	83	2	3	6	67	59	72	28	69	87	0	3	2	0	43	23
250-264	18	59	75	1	1	3	56	17	40	40	75	103	0	4	4	0	53	39
265-279	15	32	30	0	3	1	0	94	33	29	64	90	1	1	3	34	16	33
280-294	10	24	30	2	2	3	200	83	100	20	48	55	1	3	3	50	63	55
295-309	9	21	20	1	4	4	111	190	200	19	38	56	2	3	2	105	79	36
310-696	7	14	16	2	2	0	286	143	0	28	78	84	1	5	5	36	64	60
UNKNOWN	100	7	2	7	0	0				168	21	12	10	1	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.009	0.003	0.006
SE(B)	0.006	0.006	0.006
A	-6.415	-5.055	-5.903
WOMEN			
B	0.011	0.018	0.017
SE(B)	0.008	0.006	0.006
A	-6.718	-8.984	-8.560
AGE 45-54 AT EXAM			
MEN			
B	0.006	0.006	0.005
SE(B)	0.005	0.005	0.005
A	-4.373	-4.777	-4.684
WOMEN			
B	-0.001	-0.005	-0.002
SE(B)	0.005	0.005	0.006
A	-2.998	-2.507	-3.815
AGE 55-64 AT EXAM			
MEN			
B	0.004	0.007	0.004
SE(B)	0.005	0.004	0.004
A	-3.319	-4.220	-3.808
WOMEN			
B	0.006	0.003	0.001
SE(B)	0.007	0.004	0.004
A	-4.929	-3.706	-3.394

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 11-3-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9136	4	4		12642	24	19		9078	35	39		2772	17	61	
096-189	1532	1	7	******	1374	2	15	14.5	1080	8	74	33.9	330	1	30	51.3
190-204	1002	0	0	******	1216	0	0	15.6	910	0	0	36.0	314	1	32	55.2
205-219	1200	0	0	******	1776	3	17	16.3	1154	3	26	37.3	364	5	137	57.5
220-234	1332	1	8	******	1850	2	11	17.0	1356	3	22	38.8	440	2	45	60.0
235-249	986	0	0	******	1582	4	25	17.8	1246	6	48	40.1	322	0	0	62.5
250-264	802	0	0	******	1428	4	28	18.5	1106	3	27	41.6	330	4	121	65.2
265-279	574	0	0	******	1020	3	29	19.4	762	3	39	43.2	248	0	0	68.0
280-294	412	0	0	******	696	2	29	20.3	514	5	97	44.8	216	2	93	70.9
295-309	254	0	0	******	414	1	24	21.2	328	2	61	46.4	88	2	227	73.9
310-696	358	1	28	******	562	0	0	24.0	358	2	56	50.2	102	0	0	79.4
UNKNOWN	684	1			724	3			264	0			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11254	4	4		15814	10	6		11912	32	27		3872	15	39	
096-189	2932	1	3	******	1494	3	20	5.0	464	4	86	38.3	118	0	0	15.3
190-204	1782	1	6	******	1456	0	0	5.5	604	2	33	34.7	152	1	66	19.7
205-219	1494	0	0	******	1796	0	0	5.9	904	3	33	32.6	274	1	36	22.4
220-234	1350	0	0	******	2192	1	5	6.2	1398	6	43	30.7	420	1	24	25.6
235-249	976	1	10	******	1930	2	10	6.6	1354	1	7	28.8	490	1	20	29.4
250-264	634	0	0	******	1652	1	6	6.9	1578	3	19	27.1	514	3	58	33.4
265-279	442	1	23	******	1396	0	0	7.4	1482	3	20	25.5	536	1	19	38.3
280-294	302	0	0	******	1042	1	10	7.8	1192	2	17	24.0	398	1	25	44.2
295-309	160	0	0	******	678	0	0	8.3	878	1	11	22.5	314	1	32	50.5
310-1124	182	0	0	******	1216	2	16	10.0	1618	6	37	19.3	606	5	83	70.6
UNKNOWN	1000	0			962	0			440	1			50	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.003	0.004	0.002	-0.004	0.003	0.009
SE(B)	******	******	0.005	0.004	0.004	0.004	0.006	0.005
A	*******	*******	-6.353	-7.574	-5.411	-4.139	-5.055	-7.354

TABLE 11-4-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	895	16	11	10	18	12	11	1091	1125	1082	14	9	9	13	8	8
067-119	18	26	17	0	0	1	0	0	59	179	273	242	2	2	1	11	7	4
120-124	13	43	24	0	1	0	0	23	0	112	245	188	0	1	2	0	4	11
125-129	24	61	30	0	1	0	0	16	0	97	161	170	1	0	1	10	0	6
130-134	61	125	94	1	0	0	16	0	0	87	196	209	1	3	0	11	15	0
135-139	93	126	109	2	1	1	22	8	9	95	106	120	1	1	1	11	9	8
140-144	104	149	135	3	3	2	29	20	15	47	44	71	0	0	2	0	0	28
145-149	69	107	193	0	2	3	0	19	16	5	20	28	0	0	0	0	0	0
150-154	84	103	111	1	1	0	12	10	0	8	15	14	0	0	1	0	0	71
155-159	44	57	99	0	0	2	0	0	20	2	8	6	0	0	0	0	0	0
160-216	53	51	65	0	1	0	0	20	0	5	3	1	0	0	0	0	0	0
UNKNOWN	302	34	18	9	1	1				454	54	33	9	2	1			
AGE 45-54 AT EXAM																		
TOTAL	729	746	734	33	28	23	45	38	31	876	905	939	28	21	14	32	23	15
067-119	11	30	15	0	3	1	0	100	67	78	174	151	4	5	0	51	29	0
120-124	20	44	29	0	1	1	0	23	34	88	195	160	2	3	0	23	15	0
125-129	20	41	29	4	1	0	200	24	0	66	127	145	4	4	4	61	31	28
130-134	42	106	94	1	2	4	24	19	43	74	181	188	4	5	1	54	28	5
135-139	66	100	89	7	4	1	106	40	11	69	92	134	3	3	1	43	33	7
140-144	78	124	137	2	6	1	26	48	7	34	50	64	2	0	1	59	0	16
145-149	52	103	127	2	2	4	38	19	31	16	23	48	1	0	2	63	0	42
150-154	47	88	83	3	1	2	64	11	24	10	13	19	0	0	1	0	0	53
155-159	31	46	63	1	2	6	32	43	95	3	4	8	0	0	3	0	0	375
160-216	35	44	53	2	4	2	57	91	38	1	3	4	0	0	0	0	0	0
UNKNOWN	327	20	15	11	2	1				437	43	18	8	1	1			
AGE 55-64 AT EXAM																		
TOTAL	345	492	580	28	32	33	81	65	57	436	610	730	19	30	31	44	49	42
067-119	22	31	24	2	2	1	91	65	42	42	115	98	0	5	3	0	43	31
120-124	12	24	24	0	1	2	0	42	83	47	106	117	2	1	4	43	9	34
125-129	12	34	32	0	1	1	0	29	31	40	92	104	0	4	8	0	43	77
130-134	33	76	53	4	3	4	121	39	75	50	132	175	4	6	5	80	45	29
135-139	35	76	82	4	8	2	114	105	24	39	60	87	0	4	4	0	67	46
140-144	49	91	99	4	5	6	82	55	61	23	46	62	1	3	2	43	65	32
145-149	17	47	104	0	6	7	0	128	67	7	14	43	0	4	3	0	286	70
150-154	26	51	66	4	2	4	154	39	61	5	10	15	1	1	1	200	100	67
155-159	12	31	54	1	4	3	83	129	56	2	6	10	0	0	0	0	0	0
160-216	17	17	38	1	0	3	59	0	79	1	1	1	0	1	0	0	1000	0
UNKNOWN	110	14	4	8	0	0				180	28	18	11	1	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	-0.020	0.009	-0.004
SE(B)	0.031	0.026	0.030
A	-1.465	-5.673	-3.967
WOMEN			
B	-0.031	-0.008	0.051
SE(B)	0.035	0.035	0.033
A	-1.008	-4.006	-11.445
AGE 45-54 AT EXAM			
MEN			
B	-0.005	0.002	0.031
SE(B)	0.018	0.016	0.019
A	-2.178	-3.581	-7.992
WOMEN			
B	-0.005	-0.016	0.093
SE(B)	0.019	0.021	0.025
A	-2.376	-1.742	-16.733
AGE 55-64 AT EXAM			
MEN			
B	0.005	0.013	0.006
SE(B)	0.017	0.015	0.015
A	-3.094	-4.419	-3.674
WOMEN			
B	0.028	0.051	0.011
SE(B)	0.034	0.018	0.018
A	-7.098	-9.571	-4.513

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 11-4-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9136	4	4		12642	24	19		9078	35	39		2772	17	61	
067-119	136	0	0	******	148	0	0	34.6	222	1	45	62.6	50	0	0	34.1
120-124	204	0	0	******	266	2	75	28.9	192	1	52	54.8	26	0	0	37.5
125-129	282	0	0	******	294	1	34	26.0	244	0	0	51.7	48	2	417	41.3
130-134	694	0	0	******	844	1	12	23.1	664	10	151	47.9	130	0	0	45.0
135-139	898	1	11	******	1072	2	19	20.6	846	3	35	44.6	250	0	0	49.2
140-144	1310	0	0	******	1748	4	23	18.6	1382	2	14	41.9	366	1	27	53.7
145-149	1572	2	13	******	2146	3	14	16.7	1548	7	45	39.3	444	2	45	58.1
150-154	1306	0	0	******	1908	2	10	14.9	1366	3	22	36.7	556	6	108	63.8
155-159	998	0	0	******	1546	3	19	13.4	1126	4	36	34.4	398	2	50	69.0
160-216	982	0	0	******	1874	2	11	11.0	1182	4	34	30.4	476	4	84	81.3
UNKNOWN	754	1			796	4			306	0			28	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11254	4	4		15814	10	6		11912	32	27		3872	15	39	
067-119	1960	0	0	******	1646	1	6	1.6	968	1	10	14.3	198	2	101	64.0
120-124	1586	1	6	******	1746	1	6	2.8	1086	0	0	18.2	252	0	0	50.4
125-129	1548	0	0	******	1956	1	5	3.6	1342	8	60	20.8	390	3	77	46.2
130-134	2042	1	5	******	2806	0	0	4.8	2370	4	17	23.9	676	1	15	42.1
135-139	1446	1	7	******	2554	0	0	6.4	1948	4	21	27.7	678	3	44	38.5
140-144	816	0	0	******	1816	1	6	8.3	1606	5	31	31.8	682	1	15	35.3
145-149	428	0	0	******	1240	3	24	10.9	1092	2	18	36.4	446	2	45	32.2
150-154	188	0	0	******	590	1	17	14.6	542	5	92	42.1	256	3	117	29.4
155-159	78	0	0	******	200	1	50	18.8	288	1	35	48.7	156	0	0	26.9
160-216	34	0	0	******	156	0	0	29.7	164	1	61	61.2	82	0	0	23.4
UNKNOWN	1128	1			1104	1			506	1			56	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.022	0.056	-0.014	0.029	0.017	-0.018
SE(B)	******	******	0.019	0.029	0.013	0.017	0.021	0.020
A	*******	*******	-2.407	-14.327	-2.834	-9.120	-6.991	-2.338

TABLE 11-5-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	895	16	11	10	18	12	11	1091	1125	1082	14	9	9	13	8	8
062-159	253	237	127	2	4	1	8	17	8	341	443	216	5	2	1	15	5	5
160-179	83	141	74	0	0	0	0	0	0	104	193	127	0	1	1	0	5	8
180-199	100	156	113	2	2	0	20	13	0	92	150	132	1	0	0	11	0	0
200-219	45	133	125	0	1	2	0	8	16	59	150	186	1	3	2	17	20	11
220-239	34	64	123	0	1	0	0	16	0	39	73	148	1	0	3	26	0	20
240-259	30	36	106	1	0	2	33	0	19	18	32	116	1	1	1	56	31	9
260-279	16	39	77	1	0	2	63	0	26	7	22	59	0	0	0	0	0	0
280-299	3	23	61	1	1	2	333	43	33	2	12	43	0	0	0	0	0	0
300-319	4	13	32	0	0	0	0	0	0	1	4	16	0	1	0	0	250	0
320-968	7	12	39	0	1	0	0	83	0	0	6	9	0	0	1	****	0	111
UNKNOWN	290	28	18	9	1	1				428	40	30	5	1	0			
AGE 45-54 AT EXAM																		
TOTAL	729	746	734	33	28	23	45	38	31	876	905	939	28	21	14	32	23	15
062-159	157	210	112	6	4	0	38	19	0	158	203	132	8	4	3	51	20	23
160-179	68	119	81	5	1	3	74	8	37	65	113	90	4	0	0	62	0	0
180-199	47	131	90	1	6	2	21	46	22	72	142	85	3	5	3	42	35	35
200-219	49	117	109	2	4	3	41	34	28	72	166	171	3	6	1	42	36	6
220-239	20	64	91	1	6	1	50	94	11	33	100	94	0	3	0	0	30	0
240-259	27	41	78	2	5	6	74	122	77	19	66	114	0	1	1	0	15	9
260-279	24	28	58	4	0	2	167	0	34	12	52	94	0	1	1	0	19	11
280-299	10	12	50	1	1	1	100	83	20	10	18	59	0	0	3	0	0	51
300-319	4	5	24	0	0	3	0	0	125	5	6	31	0	1	0	0	167	0
320-968	4	4	26	0	0	1	0	0	38	11	7	45	1	0	2	91	0	44
UNKNOWN	319	15	15	11	1	1				419	32	24	9	0	0			
AGE 55-64 AT EXAM																		
TOTAL	345	492	580	28	32	33	81	65	57	436	610	730	19	30	31	44	49	42
062-159	92	121	83	4	4	0	43	33	0	71	80	58	3	5	3	42	63	52
160-179	49	81	57	4	5	0	82	62	0	38	78	47	0	3	3	0	38	64
180-199	26	75	67	5	5	6	192	67	90	37	108	85	3	1	2	81	9	24
200-219	31	87	85	3	7	6	97	80	71	40	124	110	1	6	3	25	48	27
220-239	14	55	88	0	4	3	0	73	34	29	78	101	0	4	4	0	51	40
240-259	8	29	83	0	4	8	0	138	96	14	46	111	0	6	5	0	130	45
260-279	14	20	47	4	2	3	286	100	64	15	31	61	0	0	3	0	0	49
280-299	3	10	20	0	1	2	0	100	100	5	23	68	1	3	3	200	130	44
300-319	0	2	29	0	0	3	****	0	103	8	9	41	1	0	3	125	0	73
320-968	3	3	19	1	0	2	333	0	105	6	9	33	0	0	2	0	0	61
UNKNOWN	105	9	2	7	0	0				173	24	15	10	2	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.007	0.002	0.007
SE(B)	0.005	0.005	0.006
A	-5.722	-4.913	-6.213
WOMEN			
B	0.006	0.013	0.009
SE(B)	0.008	0.006	0.006
A	-5.224	-7.353	-6.710
AGE 45-54 AT EXAM			
MEN			
B	0.005	0.006	0.008
SE(B)	0.004	0.003	0.004
A	-3.777	-4.365	-5.324
WOMEN			
B	-0.004	0.003	0.001
SE(B)	0.005	0.005	0.005
A	-2.368	-4.266	-4.455
AGE 55-64 AT EXAM			
MEN			
B	0.007	0.007	0.008
SE(B)	0.004	0.004	0.003
A	-3.574	-3.961	-4.660
WOMEN			
B	-0.004	0.002	0.002
SE(B)	0.007	0.004	0.003
A	-2.621	-3.395	-3.471

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 11-5-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9136	4	4		12642	24	19		9078	35	39		2772	17	61	
062-159	1330	1	8	******	1154	2	17	15.0	750	0	0	28.8	64	0	0	9.5
160-179	664	0	0	******	656	2	30	15.5	480	0	0	31.7	68	0	0	14.3
180-199	948	0	0	******	836	1	12	15.9	600	3	50	33.5	58	0	0	18.5
200-219	904	0	0	******	1034	1	10	16.2	800	5	63	35.5	204	0	0	24.8
220-239	892	0	0	******	1246	1	8	16.6	962	6	62	37.5	292	4	137	32.6
240-259	946	1	11	******	1650	1	6	16.9	1336	5	37	39.7	540	2	37	42.8
260-279	956	1	10	******	1622	3	18	17.2	1370	7	51	42.0	538	1	19	56.1
280-299	648	0	0	******	1414	5	35	17.5	1028	4	39	44.2	406	1	25	71.3
300-319	508	0	0	******	992	2	20	17.9	712	2	28	46.7	324	3	93	93.8
320-968	616	0	0	******	1258	2	16	18.7	752	3	40	52.6	260	6	231	154.6
UNKNOWN	724	1			780	4			288	0			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11254	4	4		15814	10	6		11912	32	27		3872	15	39	
062-159	2238	0	0	******	1332	1	8	4.2	610	4	66	42.2	30	0	0	17.0
160-179	986	0	0	******	768	0	0	4.8	460	0	0	37.3	48	1	208	20.0
180-199	1104	1	9	******	870	2	23	5.2	612	2	33	34.9	62	0	0	22.4
200-219	1296	0	0	******	1562	0	0	5.7	958	0	0	32.1	180	0	0	25.3
220-239	1246	1	8	******	1552	0	0	6.1	964	5	52	29.9	212	1	47	28.4
240-259	1184	1	8	******	1906	1	5	6.6	1288	4	31	27.9	388	0	0	31.4
260-279	892	0	0	******	2016	2	10	7.1	1586	5	32	26.1	640	5	78	34.8
280-299	616	0	0	******	1686	1	6	7.7	1494	4	27	24.3	646	1	15	38.6
300-319	364	1	27	******	1360	1	7	8.3	1452	3	21	22.7	726	1	14	42.6
320-968	264	0	0	******	1704	2	12	9.7	2006	4	20	19.8	876	6	68	52.8
UNKNOWN	1064	0			1058	0			482	1			64	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.001	0.004	0.003	-0.004	0.014	0.005
SE(B)	******	******	0.004	0.005	0.003	0.003	0.005	0.006
A	*******	*******	-5.938	-7.586	-5.526	-4.283	-8.171	-6.425

TABLE 11-6-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	895	16	11	10	18	12	11	1091	1125	1082	14	9	9	13	8	8
029-059	16	21	17	0	1	0	0	48	0	12	18	20	0	0	0	0	0	0
060-069	153	137	147	1	1	1	7	7	7	147	176	171	1	1	0	7	6	0
070-079	215	316	325	2	2	4	9	6	12	286	397	391	5	1	4	17	3	10
080-089	182	219	221	5	2	2	27	9	9	237	301	304	2	4	1	8	13	3
090-099	71	105	113	3	2	1	42	19	9	92	128	111	0	1	1	0	8	9
100-109	30	39	42	1	1	1	33	26	24	34	45	33	0	0	1	0	0	30
110-119	17	13	11	0	0	0	0	0	0	14	17	15	0	0	0	0	0	0
120-129	7	2	5	0	1	0	0	500	0	5	7	5	0	1	0	0	143	0
130-139	5	5	3	0	0	0	0	0	0	2	1	4	0	0	0	0	0	0
140-524	4	5	4	0	1	1	0	200	250	4	5	7	1	0	1	250	0	143
UNKNOWN	165	20	7	4	0	0				258	30	21	5	1	1			
AGE 45-54 AT EXAM																		
TOTAL	729	746	734	33	28	23	45	38	31	876	905	939	28	21	14	32	23	15
029-059	11	15	13	0	0	1	0	0	77	5	10	14	0	0	0	0	0	0
060-069	103	98	102	8	5	1	78	51	10	86	122	120	2	2	2	23	16	17
070-079	156	252	227	7	5	5	45	20	22	171	260	331	3	4	5	18	15	15
080-089	131	184	212	5	8	5	38	43	24	196	283	266	8	6	3	41	21	11
090-099	79	101	91	3	5	5	38	50	55	86	113	117	4	1	2	47	9	17
100-109	20	37	43	2	2	1	100	54	23	46	50	37	2	5	0	43	100	0
110-119	13	23	14	1	1	1	77	43	71	14	23	21	2	1	0	143	43	0
120-129	3	7	6	0	0	1	0	0	167	6	3	4	0	0	0	0	0	0
130-139	6	2	3	0	0	1	0	0	333	2	4	4	0	0	1	0	0	250
140-524	14	16	15	2	2	2	143	125	133	9	12	14	2	2	1	222	167	71
UNKNOWN	193	11	8	5	0	0				255	25	11	5	0	0			
AGE 55-64 AT EXAM																		
TOTAL	345	492	580	28	32	33	81	65	57	436	610	730	19	30	31	44	49	42
029-059	8	9	7	1	1	0	125	111	0	5	15	12	1	0	1	200	0	83
060-069	39	69	78	3	6	1	77	87	13	35	59	62	1	4	4	29	68	65
070-079	91	150	169	5	9	10	55	60	59	95	164	209	5	5	6	53	30	29
080-089	72	127	147	7	8	10	97	63	68	91	171	226	1	4	6	11	23	27
090-099	38	58	92	3	2	4	79	34	43	55	99	98	2	5	5	36	51	51
100-109	12	22	30	2	2	3	167	91	100	24	46	53	0	3	1	0	65	19
110-119	8	20	18	0	1	0	0	50	0	4	9	18	0	1	1	0	111	56
120-129	3	8	15	1	1	1	333	125	67	6	12	18	1	2	2	167	167	111
130-139	2	2	4	0	0	1	0	0	250	4	1	3	0	1	1	0	1000	333
140-524	10	15	17	2	2	3	200	133	176	13	17	22	1	4	4	77	235	182
UNKNOWN	62	12	3	4	0	0				104	17	9	7	1	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.015	0.032	0.019
SE(B)	0.012	0.010	0.006
A	-5.317	-7.082	-6.107
WOMEN			
B	0.021	0.029	0.025
SE(B)	0.008	0.018	0.007
A	-6.338	-7.282	-7.051
AGE 45-54 AT EXAM			
MEN			
B	0.005	0.008	0.014
SE(B)	0.005	0.004	0.004
A	-3.326	-3.916	-4.721
WOMEN			
B	0.015	0.023	0.008
SE(B)	0.007	0.007	0.008
A	-4.534	-5.764	-4.827
AGE 55-64 AT EXAM			
MEN			
B	0.007	0.008	0.010
SE(B)	0.005	0.005	0.004
A	-2.983	-3.314	-3.723
WOMEN			
B	-0.001	0.012	0.010
SE(B)	0.010	0.004	0.003
A	-3.163	-4.066	-4.079

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 11-6-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9136	4	4		12642	24	19		9078	35	39		2772	17	61	
029-059	298	0	0	******	354	0	0	15.3	266	0	0	26.6	64	2	313	80.3
060-069	1744	0	0	******	2274	4	18	16.6	1464	4	27	29.8	478	3	63	72.7
070-079	2980	1	3	******	4086	7	17	17.9	2754	10	36	32.9	798	5	63	67.1
080-089	2118	0	0	******	2896	5	17	19.4	2206	9	41	36.5	608	5	82	61.5
090-099	926	0	0	******	1366	6	44	21.0	1060	4	38	40.6	416	0	0	56.2
100-109	356	0	0	******	552	1	18	22.9	448	2	45	45.1	140	1	71	51.6
110-119	164	0	0	******	258	0	0	24.9	244	1	41	50.6	64	0	0	47.0
120-129	52	0	0	******	106	0	0	26.8	138	0	0	56.7	42	0	0	42.7
130-139	38	0	0	******	60	0	0	29.3	58	2	345	63.3	36	0	0	39.7
140-524	58	2	345	******	236	1	42	64.7	244	3	123	168.6	102	1	98	23.4
UNKNOWN	402	1			454	0			196	0			24	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11254	4	4		15814	10	6		11912	32	27		3872	15	39	
029-059	262	0	0	******	306	0	0	3.0	242	0	0	26.1	64	0	0	20.2
060-069	1872	0	0	******	2710	1	4	3.8	1516	5	33	26.3	466	0	0	23.7
070-079	3922	1	3	******	5282	4	8	4.6	3742	14	37	26.5	1224	1	8	27.5
080-089	2916	1	3	******	3972	0	0	5.7	3198	3	9	26.7	998	6	60	31.9
090-099	1014	0	0	******	1638	2	12	7.0	1468	4	27	26.9	510	1	20	37.1
100-109	336	0	0	******	638	0	0	8.7	632	2	32	27.1	254	1	39	42.9
110-119	140	0	0	******	300	0	0	10.9	268	1	37	27.3	84	2	238	50.8
120-129	52	0	0	******	104	0	0	13.4	208	1	48	27.6	98	0	0	59.1
130-139	20	0	0	******	40	1	250	17.0	58	0	0	27.8	32	0	0	67.6
140-524	58	1	172	******	160	2	125	121.4	282	1	35	29.6	100	4	400	301.3
UNKNOWN	662	1			664	0			298	1			42	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.008	0.022	0.011	0.001	-0.009	0.015
SE(B)	******	******	0.004	0.004	0.003	0.007	0.013	0.003
A	*******	*******	-6.255	-8.604	-5.832	-5.296	-3.616	-6.343

TABLE 11-7-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: URIC ACID (MG/LITER)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	895	16	11	10	18	12	11	1091	1125	1082	14	9	9	13	8	8
005-029	30	15	22	0	0	0	0	0	0	188	170	170	3	2	1	16	12	6
030-034	36	41	29	0	0	0	0	0	0	119	208	255	0	1	1	0	5	4
035-039	77	53	64	1	1	1	13	19	16	124	273	266	1	0	3	8	0	11
040-044	77	138	151	1	2	1	13	14	7	112	219	209	4	4	2	36	18	10
045-049	90	159	183	0	1	0	0	6	0	65	115	88	1	1	1	15	9	11
050-054	98	152	174	0	1	3	0	7	17	22	56	44	0	0	0	0	0	0
055-059	74	121	138	2	3	3	27	25	22	23	28	20	0	0	1	0	0	50
060-064	43	87	67	0	1	1	0	11	15	6	9	3	0	0	0	0	0	0
065-069	29	53	29	2	1	0	69	19	0	4	4	4	0	0	0	0	0	0
070-104	24	35	24	1	0	0	42	0	0	5	4	1	0	0	0	0	0	0
UNKNOWN	287	28	14	9	1	1				423	39	22	5	1	0			
AGE 45-54 AT EXAM																		
TOTAL	729	746	734	33	28	23	45	38	31	876	905	939	28	21	14	32	23	15
005-029	23	18	9	1	1	0	43	56	0	88	100	103	2	1	1	23	10	10
030-034	27	23	25	1	0	0	37	0	0	72	114	161	1	4	1	14	35	6
035-039	46	67	49	0	0	2	0	0	41	80	176	202	6	4	1	75	23	5
040-044	50	103	124	3	3	4	60	29	32	73	176	185	1	2	3	14	11	16
045-049	75	127	153	5	4	3	67	31	20	76	119	134	5	1	2	66	8	15
050-054	60	117	139	5	2	6	83	17	43	36	87	86	3	3	3	83	34	35
055-059	56	108	93	5	6	3	89	56	32	15	61	40	0	3	3	0	49	75
060-064	37	77	79	2	6	4	54	78	51	13	25	10	0	2	0	0	80	0
065-069	22	47	30	0	2	0	0	43	0	7	8	3	1	1	0	143	125	0
070-104	24	46	20	0	3	0	0	65	0	3	7	2	0	0	0	0	0	0
UNKNOWN	309	13	13	11	1	1				413	32	13	9	0	0			
AGE 55-64 AT EXAM																		
TOTAL	345	492	580	28	32	33	81	65	57	436	610	730	19	30	31	44	49	42
005-029	9	8	5	1	0	0	111	0	0	26	59	53	1	3	4	38	51	75
030-034	19	21	15	0	0	0	0	0	0	39	72	99	1	3	6	26	42	61
035-039	26	47	60	1	3	1	38	64	17	49	104	137	1	5	4	20	48	29
040-044	38	61	92	1	5	5	26	82	54	60	119	171	2	5	5	33	42	29
045-049	40	85	115	6	4	7	150	47	61	38	102	123	2	5	3	53	49	24
050-054	38	83	114	5	9	10	132	108	88	27	61	64	0	1	1	0	16	16
055-059	33	70	90	2	6	2	61	86	22	16	38	38	0	2	2	0	53	53
060-064	19	60	47	1	4	5	53	67	106	4	19	16	0	0	2	0	0	125
065-069	12	28	25	3	0	2	250	0	80	4	9	11	1	2	2	250	222	182
070-104	11	21	14	1	1	1	91	48	71	3	6	6	0	3	2	0	500	333
UNKNOWN	100	8	3	7	0	0				170	21	12	11	1	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.053	0.017	0.029
SE(B)	0.025	0.029	0.031
A	-7.203	-5.302	-6.063
WOMEN			
B	0.011	-0.011	0.037
SE(B)	0.030	0.040	0.038
A	-4.714	-4.475	-6.155
AGE 45-54 AT EXAM			
MEN			
B	0.002	0.038	0.004
SE(B)	0.017	0.015	0.022
A	-2.986	-5.327	-3.683
WOMEN			
B	0.024	0.036	0.071
SE(B)	0.021	0.021	0.028
A	-4.121	-5.275	-7.199
AGE 55-64 AT EXAM			
MEN			
B	0.026	0.007	0.026
SE(B)	0.019	0.016	0.018
A	-3.672	-3.016	-4.108
WOMEN			
B	0.006	0.028	0.022
SE(B)	0.035	0.018	0.018
A	-3.721	-4.185	-4.052

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 11-7-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: URIC ACID (MG/LITER)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9136	4	4		12642	24	19		9078	35	39		2772	17	61	
005-029	190	0	0	******	184	0	0	7.2	88	0	0	24.3	40	0	0	45.8
030-034	352	0	0	******	372	1	27	8.9	330	0	0	28.1	106	1	94	49.5
035-039	644	0	0	******	1004	1	10	10.4	796	2	25	30.5	248	0	0	52.2
040-044	1408	0	0	******	1828	1	5	12.2	1450	7	48	33.7	508	4	79	56.0
045-049	1654	0	0	******	2428	1	4	14.3	1890	7	37	37.1	516	6	116	59.6
050-054	1588	1	6	******	2348	3	13	16.7	1538	9	59	40.6	470	0	0	63.2
055-059	1218	1	8	******	1674	9	54	19.7	1264	3	24	44.6	438	1	23	67.3
060-064	712	1	14	******	1040	4	38	23.0	800	3	38	49.0	228	1	44	71.6
065-069	406	0	0	******	532	0	0	27.2	364	1	27	53.9	114	3	263	75.9
070-104	266	0	0	******	464	0	0	37.8	276	3	109	64.7	78	1	128	85.3
UNKNOWN	698	1			768	4			282	0			26	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11254	4	4		15814	10	6		11912	32	27		3872	15	39	
005-029	1830	1	5	******	2150	1	5	4.8	1028	3	29	9.4	256	2	78	30.8
030-034	2292	0	0	******	2682	2	7	5.6	1598	3	19	13.7	468	3	64	33.7
035-039	2484	1	4	******	3408	3	9	6.3	2340	3	13	18.0	774	2	26	36.2
040-044	2008	2	10	******	3146	1	3	7.1	2674	5	19	24.1	860	1	12	39.0
045-049	882	0	0	******	1684	0	0	8.0	1860	4	22	32.3	718	2	28	42.0
050-054	382	0	0	******	970	2	21	9.1	1032	5	48	43.0	396	3	76	45.4
055-059	224	0	0	******	432	1	23	10.3	490	2	41	56.5	212	1	47	48.3
060-064	66	0	0	******	202	0	0	11.5	234	2	85	74.2	62	0	0	51.9
065-069	32	0	0	******	94	0	0	13.1	130	3	231	100.4	30	0	0	56.1
070-104	26	0	0	******	28	0	0	15.2	62	1	161	154.7	24	1	417	66.0
UNKNOWN	1028	0			1018	0			464	1			72	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.033	0.025	0.019	0.059	0.013	0.015
SE(B)	******	******	0.020	0.033	0.017	0.017	0.024	0.028
A	*******	*******	-7.401	-7.590	-5.812	-7.789	-5.032	-5.484

TABLE 11-8-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	895	16	11	10	18	12	11	1091	1125	1082	14	9	9	13	8	8
052-084	98	85	73	0	0	0	0	0	0	195	195	173	4	1	0	21	5	0
085-089	78	77	83	0	0	1	0	0	12	127	149	159	2	2	2	16	13	13
090-094	105	114	94	1	2	0	10	18	0	153	179	166	1	3	4	7	17	24
095-099	122	137	142	3	2	2	25	15	14	153	155	142	0	0	0	0	0	0
100-104	108	104	119	0	0	0	0	0	0	120	110	130	2	0	0	17	0	0
105-109	112	105	116	2	2	1	18	19	9	96	92	84	0	0	0	0	0	0
110-114	88	100	107	4	2	2	45	20	19	64	60	60	0	0	0	0	0	0
115-119	58	63	58	3	0	1	52	0	17	45	57	45	2	0	0	44	0	0
120-124	40	41	43	0	1	0	0	24	0	29	39	37	0	0	0	0	0	0
125-226	51	51	55	3	2	3	59	39	55	98	76	76	3	3	3	31	39	39
UNKNOWN	5	5	5	0	0	0				11	13	10	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	729	746	734	33	28	23	45	38	31	876	905	939	28	21	14	32	23	15
052-084	57	64	64	0	0	0	0	0	0	68	81	93	1	3	1	15	37	11
085-089	51	50	52	2	1	0	39	20	0	55	74	88	1	0	0	18	0	0
090-094	103	84	83	6	4	4	58	48	48	83	88	109	1	1	0	12	11	0
095-099	98	120	94	4	3	4	41	25	43	123	120	141	0	2	2	0	17	14
100-104	111	107	117	8	2	2	72	19	17	126	128	122	2	3	1	16	23	8
105-109	120	107	109	4	6	2	33	56	18	101	103	101	3	0	2	30	0	20
110-114	68	91	85	4	2	4	59	22	47	80	83	80	1	1	0	13	12	0
115-119	52	54	61	1	4	5	19	74	82	63	69	61	6	2	1	95	29	16
120-124	23	29	26	2	2	0	87	69	0	52	46	35	2	2	1	38	43	29
125-226	41	36	40	2	4	2	49	111	50	120	109	106	10	6	6	83	55	57
UNKNOWN	5	4	3	0	0	0				5	4	3	1	1	0			
AGE 55-64 AT EXAM																		
TOTAL	345	492	580	28	32	33	81	65	57	436	610	730	19	30	31	44	49	42
052-084	47	53	50	3	3	2	64	57	40	30	40	48	1	3	2	33	75	42
085-089	23	33	43	2	2	2	87	61	47	25	38	47	2	1	2	80	26	43
090-094	31	47	61	2	2	4	65	43	66	39	57	63	1	0	0	26	0	0
095-099	55	83	88	3	6	6	55	72	68	47	73	100	1	0	2	21	0	20
100-104	53	70	89	5	5	1	94	71	11	51	83	102	1	2	3	20	24	29
105-109	35	62	84	2	3	3	57	48	36	39	57	85	1	4	3	26	70	35
110-114	39	59	78	1	1	4	26	17	51	47	63	57	2	3	2	43	48	35
115-119	24	41	37	4	3	4	167	73	108	43	44	62	1	1	3	23	23	48
120-124	19	23	25	2	3	3	105	130	120	29	50	44	3	4	2	103	80	45
125-226	15	18	24	4	4	4	267	222	167	84	104	119	6	12	11	71	115	92
UNKNOWN	4	3	1	0	0	0				2	1	3	0	0	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.053	0.042	0.045
SE(B)	0.017	0.019	0.018
A	-9.591	-8.838	-9.325
WOMEN			
B	0.009	0.020	0.022
SE(B)	0.014	0.016	0.015
A	-5.244	-6.881	-7.063
AGE 45-54 AT EXAM			
MEN			
B	0.010	0.037	0.025
SE(B)	0.013	0.013	0.015
A	-4.089	-7.190	-6.039
WOMEN			
B	0.042	0.022	0.033
SE(B)	0.008	0.009	0.010
A	-8.195	-6.228	-7.791
AGE 55-64 AT EXAM			
MEN			
B	0.027	0.022	0.032
SE(B)	0.013	0.013	0.013
A	-5.263	-4.941	-6.130
WOMEN			
B	0.017	0.028	0.031
SE(B)	0.010	0.008	0.008
A	-5.061	-6.209	-6.699

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 11-8-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9136	4	4		12642	24	19		9078	35	39		2772	17	61	
052-084	770	0	0	******	986	0	0	10.2	770	3	39	26.9	318	2	63	44.6
085-089	738	1	14	******	938	1	11	12.3	606	1	17	30.4	218	3	138	50.2
090-094	998	0	0	******	1362	3	22	13.9	926	6	65	32.7	280	2	71	53.8
095-099	1440	0	0	******	1780	3	17	15.6	1426	6	42	35.2	402	1	25	57.5
100-104	1224	0	0	******	1910	6	31	17.6	1508	4	27	37.8	392	2	51	61.2
105-109	1188	0	0	******	1840	3	16	19.8	1314	2	15	40.7	390	2	51	65.1
110-114	1046	0	0	******	1454	2	14	22.3	1030	2	19	43.7	358	0	0	69.7
115-119	646	0	0	******	922	1	11	25.1	656	6	91	47.0	176	1	57	73.9
120-124	436	1	23	******	594	1	17	28.3	466	2	43	50.6	98	1	102	79.5
125-226	598	2	33	******	790	4	51	37.2	344	3	87	60.3	126	3	238	91.6
UNKNOWN	52	0			66	0			32	0			14	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11254	4	4		15814	10	6		11912	32	27		3872	15	39	
052-084	1918	0	0	******	1670	1	6	4.4	922	3	33	9.0	410	3	73	34.3
085-089	1530	0	0	******	1678	2	12	4.9	914	1	11	11.5	240	0	0	35.6
090-094	1732	2	12	******	1938	1	5	5.3	1178	0	0	13.4	354	0	0	36.4
095-099	1582	1	6	******	2324	1	4	5.6	1628	1	6	15.7	480	2	42	37.2
100-104	1226	0	0	******	1976	0	0	6.0	1520	4	26	18.2	480	1	21	38.0
105-109	842	0	0	******	1616	0	0	6.5	1352	1	7	21.2	456	3	66	38.8
110-114	636	0	0	******	1230	0	0	6.9	1160	4	34	24.7	320	2	63	39.7
115-119	502	0	0	******	914	2	22	7.4	844	2	24	28.8	288	2	69	40.5
120-124	326	0	0	******	636	0	0	7.9	626	3	48	33.6	218	0	0	41.4
125-226	848	1	12	******	1730	3	17	10.6	1728	12	69	69.3	616	2	32	44.4
UNKNOWN	112	0			102	0			40	1			10	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.024	0.014	0.015	0.031	0.013	0.004
SE(B)	******	******	0.014	0.014	0.013	0.006	0.018	0.013
A	*******	*******	-8.098	-8.121	-6.397	-8.777	-5.753	-5.318

TABLE 11-9-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	895	16	11	10	18	12	11	1091	1125	1082	14	9	9	13	8	8	
05-14	1	0	1	0	0	0	0	****	0	9	12	7	0	0	0	0	0	0	MEN
15-19	1	5	3	0	0	0	0	0	0	61	46	28	2	1	3	33	22	107	B -0.074 -0.092 -0.090
20-24	12	13	9	1	1	0	83	77	0	233	189	190	6	3	2	26	16	11	SE(B) 0.038 0.043 0.045
25-29	43	45	29	2	1	0	47	22	0	413	476	411	5	4	4	12	8	10	A -1.218 -0.978 -1.083
30-34	157	127	135	4	3	5	25	24	37	285	310	332	1	1	0	4	3	0	
35-39	250	256	249	4	4	3	16	16	12	70	81	96	0	0	0	0	0	0	WOMEN
40-44	237	269	257	4	1	1	17	4	4	10	7	15	0	0	0	0	0	0	B -0.131 -0.135 -0.216
45-49	116	120	146	1	1	1	9	8	7	2	2	1	0	0	0	0	0	0	SE(B) 0.049 0.061 0.061
50-54	33	38	56	0	0	0	0	0	0	1	0	0	0	0	0	0	****	****	A -0.984 -1.309 0.730
55-61	5	7	9	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****	
UNKNOWN	10	2	1	0	0	0				7	2	2	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	729	746	734	33	28	23	45	38	31	876	905	939	28	21	14	32	23	15	
05-14	1	1	0	0	0	0	0	0	****	17	28	21	1	3	0	59	107	0	MEN
15-19	3	5	5	0	2	1	0	400	200	105	117	92	9	3	4	86	26	43	B -0.071 -0.080 -0.097
20-24	25	17	18	5	2	2	200	118	111	331	306	311	13	8	6	39	26	19	SE(B) 0.027 0.030 0.034
25-29	75	73	87	6	3	2	80	41	23	276	314	338	4	6	3	14	19	9	A -0.584 -0.499 -0.154
30-34	175	202	196	6	9	10	34	45	51	125	123	153	1	1	1	8	8	7	
35-39	228	232	212	8	6	5	35	26	24	16	15	22	0	0	0	0	0	0	WOMEN
40-44	148	159	153	7	6	3	47	38	20	2	1	2	0	0	0	0	0	0	B -0.160 -0.108 -0.091
45-49	54	44	49	1	0	0	19	0	0	0	0	0	0	0	0	****	****	****	SE(B) 0.040 0.041 0.052
50-54	15	11	11	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****	A 0.217 -1.252 -2.019
55-61	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****	
UNKNOWN	3	0	1	0	0	0				4	1	0	0	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	345	492	580	28	32	33	81	65	57	436	610	730	19	30	31	44	49	42	
05-14	0	3	3	0	0	0	****	0	0	26	47	51	1	7	4	38	149	78	MEN
15-19	3	12	7	0	2	0	0	167	0	85	140	152	5	10	10	59	71	66	B -0.046 -0.098 -0.103
20-24	19	36	40	2	5	7	105	139	175	207	255	311	13	11	15	63	43	48	SE(B) 0.035 0.028 0.028
25-29	70	87	109	9	9	10	129	103	92	85	141	169	0	2	2	0	14	12	A -0.962 0.359 0.398
30-34	106	143	170	5	11	11	47	77	65	24	24	41	0	0	0	0	0	0	
35-39	96	145	172	9	5	5	94	34	29	4	2	5	0	0	0	0	0	0	WOMEN
40-44	35	49	61	2	0	0	57	0	0	0	0	0	0	0	0	****	****	****	B -0.093 -0.144 -0.098
45-49	8	13	12	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****	SE(B) 0.049 0.036 0.035
50-54	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****	A -1.140 -0.109 -1.086
55-61	0	0	0	0	0	0	****	****	****	0	0	0	0	0	0	****	****	****	
UNKNOWN	7	3	2	1	0	0				5	1	1	0	0	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 11-9-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9136	4	4		12642	24	19		9078	35	39		2772	17	61	
05-14	4	0	0	******	8	0	0	115.1	18	0	0	262.8	12	0	0	257.2
15-19	28	0	0	******	74	1	135	68.1	108	0	0	146.6	84	2	238	172.6
20-24	96	0	0	******	314	4	127	47.4	510	5	98	96.0	294	4	136	113.6
25-29	342	1	29	******	1136	1	9	33.9	1634	15	92	59.8	680	2	29	74.9
30-34	1356	2	15	******	2850	7	25	24.1	2596	8	31	38.1	958	8	84	49.2
35-39	2486	1	4	******	3870	4	10	16.9	2590	6	23	24.1	532	1	19	32.0
40-44	2646	0	0	******	2890	6	21	12.1	1198	0	0	15.3	164	0	0	21.3
45-49	1410	0	0	******	1124	1	9	8.5	304	1	33	9.5	30	0	0	13.6
50-54	612	0	0	******	308	0	0	5.9	80	0	0	5.8	4	0	0	9.6
55-61	130	0	0	******	60	0	0	4.2	10	0	0	4.0	2	0	0	6.2
UNKNOWN	26	0			8	0			30	0			12	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11254	4	4		15814	10	6		11912	32	27		3872	15	39	
05-14	56	0	0	******	200	0	0	53.3	506	6	119	154.7	408	2	49	79.9
15-19	360	1	28	******	1198	4	33	19.4	2198	14	64	47.9	1142	7	61	47.2
20-24	1834	1	5	******	4584	6	13	8.4	5038	12	24	20.9	1590	6	38	31.2
25-29	4398	1	2	******	6018	0	0	3.7	3238	0	0	8.7	630	0	0	20.1
30-34	3328	1	3	******	3162	0	0	1.6	812	0	0	3.7	98	0	0	12.8
35-39	1082	0	0	******	572	0	0	0.7	102	0	0	1.5	4	0	0	8.8
40-44	144	0	0	******	56	0	0	0.3	2	0	0	0.6	0	0	*****	******
45-49	16	0	0	******	8	0	0	0.1	2	0	0	0.2	0	0	*****	******
50-54	2	0	0	******	0	0	*****	******	0	0	*****	******	0	0	*****	******
55-61	2	0	0	******	0	0	*****	******	0	0	*****	******	0	0	*****	******
UNKNOWN	32	0			16	0			14	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	-0.072	-0.179	-0.097	-0.186	-0.089	-0.095
SE(B)	******	******	0.030	0.059	0.026	0.032	0.040	0.053
A	*******	*******	-3.020	-2.435	-1.781	-1.429	-1.787	-3.022

TABLE 11-10-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	895	16	11	10	18	12	11	1091	1125	1082	14	9	9	13	8	8	
NONE	0	121	119	0	2	1	****	17	8	0	329	309	0	3	3	****	9	10	MEN
000-009	0	255	273	0	3	3	****	12	11	0	448	442	0	2	2	****	4	5	B******* -0.004 -0.007
010-019	0	128	126	0	0	0	****	0	0	0	101	98	0	1	1	****	10	10	SE(B)****** 0.011 0.014
020-029	0	77	75	0	0	0	****	0	0	0	61	55	0	0	0	****	0	0	A******* -4.503 -4.609
030-039	0	45	54	0	1	2	****	22	37	0	35	32	0	0	0	****	0	0	
040-049	0	46	45	0	0	0	****	0	0	0	15	13	0	0	0	****	0	0	WOMEN
050-059	0	26	26	0	1	1	****	38	38	0	8	7	0	0	0	****	0	0	B******* 0.004 0.004
060-069	0	24	22	0	0	0	****	0	0	0	21	22	0	1	1	****	48	45	SE(B)****** 0.017 0.017
070-079	0	16	15	0	1	0	****	63	0	0	5	5	0	0	0	****	0	0	A******* -5.025 -4.985
080-457	0	60	58	0	0	0	****	0	0	0	10	9	0	0	0	****	0	0	
UNKNOWN	865	84	82	16	3	3				1091	92	90	14	2	2				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	729	746	734	33	28	23	45	38	31	876	905	939	28	21	14	32	23	15	
NONE	0	136	124	0	6	3	****	44	24	0	374	369	0	11	7	****	29	19	MEN
000-009	0	205	200	0	9	9	****	44	45	0	315	342	0	5	4	****	16	12	B******* -0.005 -0.003
010-019	0	76	78	0	2	2	****	26	26	0	54	54	0	2	2	****	37	37	SE(B)****** 0.007 0.007
020-029	0	55	61	0	1	1	****	18	16	0	35	39	0	0	0	****	0	0	A******* -3.079 -3.303
030-039	0	65	62	0	3	2	****	46	32	0	31	34	0	1	0	****	32	0	
040-049	0	35	35	0	2	1	****	57	29	0	15	16	0	1	0	****	67	0	WOMEN
050-059	0	29	25	0	2	1	****	69	40	0	4	3	0	0	0	****	0	0	B******* -0.004 -0.036
060-069	0	24	31	0	1	1	****	42	32	0	7	10	0	0	0	****	0	0	SE(B)****** 0.017 0.039
070-079	0	6	8	0	0	1	****	0	125	0	1	1	0	0	0	****	0	0	A******* -3.695 -4.033
080-457	0	49	43	0	1	1	****	20	23	0	7	7	0	0	0	****	0	0	
UNKNOWN	729	66	67	33	1	1				876	62	64	28	1	1				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	345	492	580	28	32	33	81	65	57	436	610	730	19	30	31	44	49	42	
NONE	0	116	131	0	7	10	****	60	76	0	304	355	0	20	18	****	66	51	MEN
000-009	0	146	167	0	9	6	****	62	36	0	185	224	0	6	7	****	32	31	B******* 0.006 0.006
010-019	0	37	52	0	4	4	****	108	77	0	19	33	0	0	0	****	0	0	SE(B)****** 0.004 0.004
020-029	0	23	30	0	0	0	****	0	0	0	20	26	0	2	2	****	100	77	A******* -2.742 -2.911
030-039	0	36	42	0	4	3	****	111	71	0	19	21	0	0	1	****	0	48	
040-049	0	22	28	0	1	2	****	45	71	0	5	7	0	0	1	****	0	143	WOMEN
050-059	0	12	17	0	1	2	****	83	118	0	2	4	0	0	0	****	0	0	B******* -0.007 0.005
060-069	0	7	7	0	0	0	****	0	0	0	1	1	0	1	1	****	1000	1000	SE(B)****** 0.017 0.011
070-079	0	12	13	0	0	0	****	0	0	0	2	1	0	0	0	****	0	0	A******* -2.878 -3.101
080-457	0	35	45	0	5	5	****	143	111	0	5	5	0	0	0	****	0	0	
UNKNOWN	345	46	48	28	1	1				436	48	53	19	1	1				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 11-10-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9136	4	4		12642	24	19		9078	35	39		2772	17	61	
NONE	1016	0	0	******	1812	3	17	14.6	1854	13	70	48.2	670	2	30	50.1
000-009	2288	2	9	******	3058	4	13	14.7	2276	7	31	47.2	752	6	80	51.2
010-019	1030	0	0	******	1298	2	15	14.9	786	2	25	43.8	234	0	0	55.3
020-029	600	0	0	******	850	0	0	15.0	530	2	38	40.8	184	0	0	60.4
030-039	436	1	23	******	888	2	23	15.2	624	3	48	38.4	210	3	143	64.3
040-049	386	0	0	******	618	1	16	15.4	478	3	63	35.4	128	1	78	70.6
050-059	160	0	0	******	274	0	0	15.6	188	1	53	33.1	68	0	0	75.9
060-069	266	0	0	******	518	1	19	15.7	374	0	0	31.0	106	0	0	81.0
070-079	136	0	0	******	258	0	0	16.0	164	0	0	28.6	54	0	0	89.2
080-457	570	0	0	******	1002	3	30	17.0	646	2	31	21.5	234	5	214	140.0
UNKNOWN	2248	1			2066	8			1158	2			132	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11254	4	4		15814	10	6		11912	32	27		3872	15	39	
NONE	2520	1	4	******	4618	4	9	6.4	5098	17	33	29.6	2014	13	65	60.1
000-009	3746	2	5	******	5392	4	7	6.5	3574	8	22	29.5	1068	2	19	27.0
010-019	852	0	0	******	1048	0	0	6.8	480	0	0	29.2	168	0	0	0.3
020-029	458	1	22	******	634	0	0	7.2	394	3	76	28.9	156	0	0	0.0
030-039	384	0	0	******	738	0	0	7.5	488	1	20	28.7	152	0	0	0.0
040-049	136	0	0	******	256	0	0	7.9	172	1	58	28.3	60	0	0	0.0
050-059	66	0	0	******	88	0	0	8.3	62	0	0	28.0	14	0	0	0.0
060-069	204	0	0	******	324	0	0	8.7	118	1	85	27.7	28	0	0	0.0
070-079	46	0	0	******	94	0	0	9.2	34	0	0	27.3	16	0	0	0.0
080-457	94	0	0	******	188	1	53	10.7	130	0	0	26.5	12	0	0	0.0
UNKNOWN	2748	0			2434	1			1362	1			184	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.001	0.005	-0.007	-0.001	0.008	-0.452
SE(B)	******	******	0.006	0.015	0.006	0.011	0.004	0.359
A	*******	*******	-5.832	-6.662	-4.632	-5.123	-4.593	-4.408

TABLE 11-11-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	895	16	11	10	18	12	11	1091	1125	1082	14	9	9	13	8	8
NONE	244	246	258	4	2	2	16	8	8	530	521	494	6	4	4	11	8	8
UNDER 20	147	145	140	1	1	0	7	7	0	357	378	372	7	5	5	20	13	13
20	254	257	263	3	1	3	12	4	11	152	173	163	1	0	0	7	0	0
OVER 20	216	228	229	8	7	5	37	31	22	44	47	47	0	0	0	0	0	0
UNKNOWN	4	6	5	0	0	0				8	6	6	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	729	746	734	33	28	23	45	38	31	876	905	939	28	21	14	32	23	15
NONE	279	269	262	7	5	5	25	19	19	597	586	573	19	11	9	32	19	16
UNDER 20	116	116	115	4	2	3	34	17	26	180	207	234	6	6	2	33	29	9
20	171	187	182	14	12	7	82	64	38	71	80	98	1	2	2	14	25	20
OVER 20	155	165	167	7	8	7	45	48	42	23	29	31	2	2	1	87	69	32
UNKNOWN	8	9	8	1	1	1				5	3	3	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	345	492	580	28	32	33	81	65	57	436	610	730	19	30	31	44	49	42
NONE	165	235	254	12	13	13	73	55	51	347	469	538	15	25	23	43	53	43
UNDER 20	68	92	114	7	7	4	103	76	35	63	96	131	4	5	7	63	52	53
20	73	104	133	7	9	12	96	87	90	16	30	41	0	0	0	0	0	0
OVER 20	36	59	77	2	3	4	56	51	52	8	11	16	0	0	1	0	0	63
UNKNOWN	3	2	2	0	0	0				2	4	4	0	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.346	0.558	0.481
SE(B)	0.236	0.311	0.313
A	-4.563	-5.410	-5.352
WOMEN			
B	-0.132	-0.339	-0.351
SE(B)	0.334	0.448	0.450
A	-4.244	-4.591	-4.543
AGE 45-54 AT EXAM			
MEN			
B	0.278	0.390	0.278
SE(B)	0.153	0.173	0.186
A	-3.475	-3.888	-3.892
WOMEN			
B	0.088	0.352	0.122
SE(B)	0.242	0.235	0.313
A	-3.446	-3.955	-4.261
AGE 55-64 AT EXAM			
MEN			
B	0.022	0.079	0.133
SE(B)	0.186	0.165	0.160
A	-2.438	-2.742	-2.955
WOMEN			
B	-0.200	-0.497	-0.086
SE(B)	0.438	0.404	0.281
A	-3.035	-2.839	-3.081

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 11-11-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9136	4	4		12642	24	19		9078	35	39		2772	17	61	
NONE	2858	2	7	5.5	4696	11	23	23.2	4326	12	28	29.5	1616	9	56	62.2
UNDER 20	1418	0	0	4.7	1812	3	17	19.8	1506	6	40	37.2	548	5	91	61.2
20	2480	1	4	4.0	2992	6	20	16.9	1812	10	55	46.8	352	2	57	60.2
OVER 20	2328	1	4	3.4	3070	4	13	14.4	1382	7	51	58.9	248	1	40	59.2
UNKNOWN	52	0			72	0			52	0			8	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11254	4	4		15814	10	6		11912	32	27		3872	15	39	
NONE	5172	1	2	3.8	8984	6	7	6.8	8546	22	26	24.9	3088	13	42	43.2
UNDER 20	3606	3	8	3.5	3736	2	5	6.1	2060	6	29	29.5	540	2	37	25.2
20	1778	0	0	3.3	2184	2	9	5.6	868	1	12	34.9	164	0	0	14.7
OVER 20	640	0	0	3.0	850	0	0	5.0	394	3	76	41.3	62	0	0	8.5
UNKNOWN	58	0			60	0			44	0			18	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	-0.160	-0.078	-0.160	-0.098	0.232	0.169	-0.017	-0.543
SE(B)	0.428	0.572	0.174	0.368	0.142	0.206	0.247	0.630
A	-6.817	-7.183	-5.366	-6.605	-5.126	-5.297	-4.374	-4.742

TABLE 11-12-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: ALBUMIN IN URINE

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	895	16	11	10	18	12	11	1091	1125	1082	14	9	9	13	8	8
NO	823	868	876	14	10	10	17	12	11	988	1080	1032	14	9	9	14	8	9
POSSIBLE	2	0	3	0	0	0	0	****	0	7	1	5	0	0	0	0	0	0
DEFINITE	21	7	12	1	0	0	48	0	0	72	40	42	0	0	0	0	0	0
UNKNOWN	19	7	4	1	1	0				24	4	3	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	729	746	734	33	28	23	45	38	31	876	905	939	28	21	14	32	23	15
NO	696	736	724	31	26	23	45	35	32	802	868	895	21	21	13	26	24	15
POSSIBLE	1	0	0	0	0	0	0	****	****	7	4	6	0	0	1	0	0	167
DEFINITE	23	8	10	2	2	0	87	250	0	57	31	37	7	0	0	123	0	0
UNKNOWN	9	2	0	0	0	0				10	2	1	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	345	492	580	28	32	33	81	65	57	436	610	730	19	30	31	44	49	42
NO	323	473	555	25	30	26	77	63	47	404	586	700	17	23	24	42	39	34
POSSIBLE	1	1	6	0	0	1	0	0	167	0	1	2	0	1	0	****	1000	0
DEFINITE	14	15	17	2	2	6	143	133	353	24	19	25	2	6	7	83	316	280
UNKNOWN	7	3	2	1	0	0				8	4	3	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.517	**********	
SE(B)	0.533	******	******
A	-4.059	**********	
WOMEN			
B	**********		
SE(B)	******	******	******
A	**********		
AGE 45-54 AT EXAM			
MEN			
B	0.349	1.104	*******
SE(B)	0.383	0.420	******
A	-3.067	-3.307	*******
WOMEN			
B	0.813	*******	-0.098
SE(B)	0.232	******	0.741
A	-3.626	*******	-4.182
AGE 55-64 AT EXAM			
MEN			
B	0.329	0.398	1.211
SE(B)	0.398	0.393	0.268
A	-2.480	-2.694	-3.010
WOMEN			
B	0.364	1.255	1.189
SE(B)	0.390	0.264	0.246
A	-3.125	-3.178	-3.343

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 11-12-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: ALBUMIN IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9136	4	4		12642	24	19		9078	35	39		2772	17	61	
NO	8890	2	2	2.2	12354	24	19	******	8618	27	31	30.9	2592	12	46	51.5
POSSIBLE	20	0	0	12.2	42	0	0	******	80	0	0	83.5	26	3	1154	108.8
DEFINITE	150	1	67	65.9	210	0	0	******	346	8	231	221.6	148	2	135	226.9
UNKNOWN	76	1			36	0			34	0			6	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11254	4	4		15814	10	6		11912	32	27		3872	15	39	
NO	10638	4	4	******	15100	10	7	******	11388	29	25	25.2	3696	13	35	34.8
POSSIBLE	90	0	0	******	134	0	0	******	114	0	0	43.4	38	0	0	72.6
DEFINITE	450	0	0	******	542	0	0	******	370	3	81	74.4	124	2	161	150.2
UNKNOWN	76	0			38	0			40	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	1.698	*******	*******	*******	1.004	0.545	0.759	0.743
SE(B)	0.618	******	******	******	0.208	0.313	0.310	0.393
A	-7.712	*******	*******	*******	-5.079	-5.283	-4.565	-4.961

TABLE 11-13-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: SUGAR IN URINE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	895	16	11	10	18	12	11	1091	1125	1082	14	9	9	13	8	8	
																			MEN
NO	825	871	886	14	10	9	17	11	10	1055	1117	1074	13	8	8	12	7	7	B 0.898******* 1.596
POSSIBLE	13	2	0	0	0	0	0	0	****	7	0	0	0	0	0	0	****	****	SE(B) 0.582 ****** 0.584
DEFINITE	8	2	5	1	0	1	125	0	200	5	4	5	1	1	1	200	250	200	A -4.078******* -4.579
UNKNOWN	19	7	4	1	1	0				24	4	3	0	0	0				WOMEN
																			B 1.395 1.917 1.753
																			SE(B) 0.589 0.604 0.587
																			A -4.397 -4.932 -4.892
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	729	746	734	33	28	23	45	38	31	876	905	939	28	21	14	32	23	15	
																			MEN
NO	689	720	710	30	26	21	44	36	30	847	894	926	28	20	13	33	22	14	B 0.692 0.678 0.793
POSSIBLE	20	11	11	1	0	0	50	0	0	10	1	2	0	0	0	0	0	0	SE(B) 0.390 0.411 0.413
DEFINITE	11	13	13	2	2	2	182	154	154	9	8	10	0	1	1	0	125	100	A -3.101 -3.299 -3.508
UNKNOWN	9	2	0	0	0	0				10	2	1	0	0	0				WOMEN
																			B******* 0.901 1.008
																			SE(B)****** 0.549 0.549
																			A******* -3.779 -4.255
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	345	492	580	28	32	33	81	65	57	436	610	730	19	30	31	44	49	42	
																			MEN
NO	323	477	558	25	29	29	77	61	52	414	590	712	17	26	27	41	44	38	B 0.427 0.733 0.868
POSSIBLE	9	1	4	1	1	0	111	1000	0	5	4	1	1	1	1	200	250	1000	SE(B) 0.504 0.373 0.306
DEFINITE	6	11	16	1	2	4	167	182	250	9	12	14	1	3	3	111	250	214	A -2.479 -2.721 -2.912
UNKNOWN	7	3	2	1	0	0				8	4	3	0	0	0				WOMEN
																			B 0.678 1.041 1.049
																			SE(B) 0.474 0.334 0.324
																			A -3.132 -3.066 -3.216

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 11-13-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: SUGAR IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9136	4	4		12642	24	19		9078	35	39		2772	17	61	
NO	8952	2	2	2.2	12294	23	19	19.0	8730	31	36	35.3	2646	16	60	60.3
POSSIBLE	48	0	0	17.7	116	1	86	19.3	54	0	0	72.1	14	0	0	73.5
DEFINITE	68	1	147	140.8	198	0	0	19.6	260	4	154	146.4	106	1	94	89.5
UNKNOWN	68	1			34	0			34	0			6	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11254	4	4		15B14	10	6		11912	32	27		3872	15	39	
NO	11096	3	3	2.7	15600	8	5	5.1	11652	32	27	******	3786	14	37	36.9
POSSIBLE	20	0	0	20.8	46	0	0	27.6	52	0	0	******	12	0	0	76.9
DEFINITE	62	1	161	157.9	132	2	152	146.7	172	0	0	******	60	1	167	159.0
UNKNOWN	76	0			36	0			36	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	2.097	2.053	0.015	1.695	0.723	*******	0.201	0.743
SE(B)	0.628	0.588	0.761	0.404	0.273	******	0.527	0.532
A	-7.734	-7.529	-5.568	-6.889	-4.947	*******	-4.406	-4.903

TABLE 11-14-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	895	16	11	10	18	12	11	1091	1125	1082	14	9	9	13	8	8	
																			MEN
NO	771	780	815	10	5	5	13	6	6	949	1015	1013	11	7	5	12	7	5	B 1.013 1.280 1.501
POSSIBLE	26	35	43	0	1	1	0	29	23	56	39	36	1	0	1	18	0	28	SE(B) 0.274 0.320 0.349
DEFINITE	64	65	36	6	5	4	94	77	111	82	70	32	2	2	3	24	29	94	A -4.377 -5.024 -5.102
UNKNOWN	4	2	1	0	0	0				4	1	1	0	0	0				WOMEN
																			B 0.384 0.671 1.526
																			SE(B) 0.375 0.423 0.371
																			A -4.444 -5.007 -5.288
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	729	746	734	33	28	23	45	38	31	876	905	939	28	21	14	32	23	15	
																			MEN
NO	578	650	647	19	21	17	33	32	26	631	686	759	15	9	5	24	13	7	B 0.580 0.532 0.717
POSSIBLE	23	40	42	2	2	1	87	50	24	61	78	100	3	3	3	49	38	30	SE(B) 0.189 0.254 0.273
DEFINITE	124	56	45	12	5	5	97	89	111	178	141	80	10	9	6	56	64	75	A -3.364 -3.403 -3.647
UNKNOWN	4	0	0	0	0	0				6	0	0	0	0	0				WOMEN
																			B 0.453 0.818 1.249
																			SE(B) 0.205 0.236 0.301
																			A -3.692 -4.285 -4.957
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	345	492	580	28	32	33	81	65	57	436	610	730	19	30	31	44	49	42	
																			MEN
NO	248	378	472	17	23	25	69	61	53	253	365	469	8	9	8	32	25	17	B 0.332 0.128 0.253
POSSIBLE	17	45	51	1	4	3	59	89	59	34	80	116	1	2	8	29	25	69	SE(B) 0.212 0.240 0.249
DEFINITE	79	69	57	10	5	5	127	72	88	145	165	145	10	19	15	69	115	103	A -2.627 -2.717 -2.892
UNKNOWN	1	0	0	0	0	0				4	0	0	0	0	0				WOMEN
																			B 0.413 0.849 0.919
																			SE(B) 0.247 0.216 0.211
																			A -3.458 -3.797 -3.909

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 11-14-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9136	4	4		12642	24	19		9078	35	39		2772	17	61	
NO	8278	3	4	3.4	10728	11	10	10.2	6976	13	19	20.0	1800	3	17	17.6
POSSIBLE	384	0	0	8.0	930	3	32	32.6	964	7	73	53.2	436	3	69	61.2
DEFINITE	454	1	22	18.6	972	10	103	102.7	1136	15	132	140.3	536	11	205	208.3
UNKNOWN	20	0			12	0			2	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11254	4	4		15814	10	6		11912	32	27		3872	15	39	
NO	10338	1	1	1.3	12852	5	4	3.8	7542	3	4	5.0	1862	4	21	19.7
POSSIBLE	400	1	25	7.8	1392	1	7	9.6	1966	6	31	22.5	724	2	28	36.6
DEFINITE	500	2	40	46.9	1558	4	26	24.6	2396	23	96	99.3	1286	9	70	67.5
UNKNOWN	16	0			12	0			8	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.847	1.797	1.162	0.941	0.987	1.501	1.255	0.619
SE(B)	0.610	0.540	0.220	0.342	0.185	0.258	0.310	0.307
A	-7.282	-8.255	-6.189	-7.192	-5.519	-6.902	-5.646	-5.530

TABLE 11-15-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	895	16	11	10	18	12	11	1091	1125	1082	14	9	9	13	8	8
NO	840	847	864	13	6	6	15	7	7	1081	1106	1063	14	9	9	13	8	8
POSSIBLE	16	27	27	1	1	2	63	37	74	7	15	15	0	0	0	0	0	0
DEFINITE	9	8	4	2	4	2	222	500	500	3	4	4	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	729	746	734	33	28	23	45	38	31	876	905	939	28	21	14	32	23	15
NO	696	700	682	25	22	16	36	31	23	849	864	904	23	17	14	27	20	15
POSSIBLE	18	24	30	3	1	2	167	42	67	14	31	25	2	1	0	143	32	0
DEFINITE	15	22	22	5	5	5	333	227	227	13	10	10	3	3	0	231	300	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	345	492	580	28	32	33	81	65	57	436	610	730	19	30	31	44	49	42
NO	312	436	518	23	25	25	74	57	48	418	550	651	15	20	18	36	36	28
POSSIBLE	14	29	28	2	2	2	143	69	71	8	34	46	1	3	3	125	88	65
DEFINITE	19	27	34	3	5	6	158	185	176	10	26	33	3	7	10	300	269	303
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	1.449	2.402	2.470
SE(B)	0.405	0.403	0.489
A	-4.153	-5.016	-4.967
WOMEN			
B	**********	**********	**********
SE(B)	******	******	******
A	**********	**********	**********
AGE 45-54 AT EXAM			
MEN			
B	1.344	1.048	1.239
SE(B)	0.276	0.277	0.279
A	-3.275	-3.452	-3.738
WOMEN			
B	1.257	1.392	*******
SE(B)	0.321	0.360	******
A	-3.565	-3.946	*******
AGE 55-64 AT EXAM			
MEN			
B	0.464	0.613	0.698
SE(B)	0.312	0.265	0.244
A	-2.521	-2.818	-2.993
WOMEN			
B	1.231	1.122	1.334
SE(B)	0.358	0.244	0.225
A	-3.288	-3.290	-3.599

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 11-15-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9136	4	4		12642	24	19		9078	35	39		2772	17	61	
NO	8808	2	2	1.9	11852	15	13	11.8	8092	21	26	25.7	2314	11	48	45.1
POSSIBLE	262	0	0	22.8	538	1	19	57.9	566	4	71	78.2	228	1	44	93.7
DEFINITE	66	2	303	257.8	252	8	317	275.4	420	10	238	233.0	230	5	217	192.7
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11254	4	4		15814	10	6		11912	32	27		3872	15	39	
NO	11060	4	4	******	15318	9	6	6.1	10848	18	17	15.9	3312	7	21	20.5
POSSIBLE	138	0	0	******	368	1	27	11.6	686	3	44	66.6	334	2	60	73.3
DEFINITE	56	0	0	******	128	0	0	22.3	378	11	291	270.3	226	6	265	255.6
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	2.473	*******	1.604	0.654	1.124	1.444	0.741	1.287
SE(B)	0.549	******	0.235	0.826	0.195	0.200	0.284	0.287
A	-7.859	*******	-6.050	-6.714	-5.266	-5.749	-4.700	-5.495

TABLE 11-16-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	895	16	11	10	19	12	11	1091	1125	1082	14	9	9	13	8	8	
																			MEN
NO	845	861	869	16	10	10	19	12	12	1073	1109	1069	14	9	9	13	8	8	B******* 1.448*******
YES	20	21	26	0	1	0	0	48	0	18	16	13	0	0	0	0	0	0	SE(B)****** 1.073 ******
																			A******* -4.444*******
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	729	746	734	33	28	23	45	38	31	876	905	939	28	21	14	32	23	15	
																			MEN
NO	703	726	707	29	27	21	41	37	30	855	869	907	24	19	14	28	22	15	B 1.441 0.309 0.961
YES	26	20	27	4	1	2	154	50	74	21	36	32	4	2	0	190	56	0	SE(B) 0.576 1.045 0.768
																			A -3.146 -3.254 -3.486
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 2.098 0.968*******
																			SE(B) 0.593 0.764 ******
																			A -3.545 -3.801*******
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	345	492	580	28	32	33	81	65	57	436	610	730	19	30	31	44	49	42	
																			MEN
NO	334	469	547	27	31	27	81	66	49	422	576	681	19	29	27	45	50	40	B 0.128 -0.443 1.454
YES	11	23	33	1	1	6	91	43	182	14	34	49	0	1	4	0	29	82	SE(B) 1.068 1.039 0.493
																			A -2.431 -2.648 -2.958
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B******* -0.559 0.767
																			SE(B)****** 1.033 0.557
																			A******* -2.937 -3.187

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 11-16-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9136	4	4		12642	24	19		9078	35	39		2772	17	61	
NO	8888	4	5	4.5	12068	20	17	16.6	8512	29	34	34.1	2512	14	56	55.7
YES	248	0	0	0.0	574	4	70	69.7	566	6	106	106.0	260	3	115	115.4
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11254	4	4		15814	10	6		11912	32	27		3872	15	39	
NO	11052	4	4	3.6	15276	9	6	5.9	11196	28	25	25.0	3524	14	40	39.7
YES	202	0	0	0.0	538	1	19	18.6	716	4	56	55.9	348	1	29	28.7
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	*******	1.447	1.151	1.150	0.810	0.740	-0.326
SE(B)	******	******	0.551	1.056	0.453	0.537	0.643	1.038
A	*******	*******	-5.706	-6.742	-4.982	-5.293	-4.485	-4.827

TABLE 11-17-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: DIABETES MELLITUS

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	895	16	11	10	18	12	11	1091	1125	1082	14	9	9	13	8	8
NO	853	872	886	14	9	8	16	10	9	1083	1119	1076	12	8	8	11	7	7
YES	12	10	9	2	2	2	167	200	222	8	6	6	2	1	1	250	167	167
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	729	746	734	33	28	23	45	38	31	876	905	939	28	21	14	32	23	15
NO	707	721	711	31	25	21	44	35	30	855	891	918	24	19	13	28	21	14
YES	22	25	23	2	3	2	91	120	87	21	14	21	4	2	1	190	143	48
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	345	492	580	28	32	33	81	65	57	436	610	730	19	30	31	44	49	42
NO	330	472	555	24	28	28	73	59	50	424	584	701	17	24	25	40	41	36
YES	15	20	25	4	4	5	267	200	200	12	26	29	2	6	6	167	231	207
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	2.484	3.177	3.445
SE(B)	0.820	0.859	0.877
A	-4.093	-4.563	-4.698
WOMEN			
B	3.393	3.324	3.285
SE(B)	0.867	1.151	1.151
A	-4.491	-4.934	-4.894
AGE 45-54 AT EXAM			
MEN			
B	0.780	1.334	1.141
SE(B)	0.764	0.648	0.772
A	-3.082	-3.326	-3.492
WOMEN			
B	2.098	2.035	1.247
SE(B)	0.593	0.798	1.062
A	-3.545	-3.826	-4.243
AGE 55-64 AT EXAM			
MEN			
B	1.534	1.377	1.549
SE(B)	0.621	0.592	0.536
A	-2.546	-2.764	-2.935
WOMEN			
B	1.566	1.946	1.954
SE(B)	0.813	0.510	0.502
A	-3.176	-3.150	-3.297

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 11-17-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: DIABETES MELLITUS

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9136	4	4		12642	24	19		9078	35	39		2772	17	61	
NO	9044	2	2	2.2	12286	22	18	17.9	8630	32	37	37.1	2578	14	54	54.3
YES	92	2	217	217.4	356	2	56	56.2	448	3	67	67.0	194	3	155	154.6
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11254	4	4		15814	10	6		11912	32	27		3872	15	39	
NO	11176	3	3	2.7	15534	8	5	5.1	11462	27	24	23.6	3652	10	27	27.4
YES	78	1	128	128.2	280	2	71	71.4	450	5	111	111.1	220	5	227	227.3
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	4.632	3.892	1.151	2.643	0.597	1.569	1.067	2.157
SE(B)	1.011	1.166	0.742	0.795	0.608	0.492	0.645	0.557
A	-7.723	-7.529	-5.628	-6.877	-4.897	-5.353	-4.512	-5.202

TABLE 11-18-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: HYPERTENSION

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	882	895	16	11	10	18	12	11	1091	1125	1082	14	9	9	13	8	8
NO	381	508	600	0	0	2	0	0	3	707	872	870	7	4	5	10	5	6
BORDER	355	266	212	6	3	1	17	11	5	291	187	169	5	4	3	17	21	18
DEFINITE	129	108	83	10	8	7	78	74	84	93	66	43	2	1	1	22	15	23
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	729	746	734	33	28	23	45	38	31	876	905	939	28	21	14	32	23	15
NO	289	374	399	7	4	5	24	11	13	309	419	513	5	5	3	16	12	6
BORDER	268	242	221	9	15	7	34	62	32	362	303	261	5	4	2	14	13	8
DEFINITE	172	130	114	17	9	11	99	69	96	205	183	165	18	12	9	88	66	55
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	345	492	580	28	32	33	81	65	57	436	610	730	19	30	31	44	49	42
NO	123	217	298	6	7	8	49	32	27	102	161	255	1	3	2	10	19	8
BORDER	131	166	172	7	7	10	53	42	58	177	231	250	6	7	9	34	30	36
DEFINITE	91	109	110	15	18	15	165	165	136	157	218	225	12	20	20	76	92	89
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	1.938	2.325	1.854
SE(B)	0.446	0.583	0.460
A	-6.277	-7.121	-6.228
WOMEN			
B	0.432	0.817	0.822
SE(B)	0.365	0.424	0.457
A	-4.573	-5.189	-5.089
AGE 45-54 AT EXAM			
MEN			
B	0.803	0.848	1.079
SE(B)	0.239	0.247	0.275
A	-3.902	-4.017	-4.423
WOMEN			
B	1.118	0.981	1.262
SE(B)	0.289	0.295	0.365
A	-4.725	-4.751	-5.486
AGE 55-64 AT EXAM			
MEN			
B	0.759	0.973	0.878
SE(B)	0.269	0.247	0.227
A	-3.261	-3.683	-3.618
WOMEN			
B	0.965	0.949	1.141
SE(B)	0.382	0.295	0.286
A	-4.400	-4.229	-4.576

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 11-18-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: HYPERTENSION

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9136	4	4		12642	24	19		9078	35	39		2772	17	61	
NO	5402	0	0	0.2	6544	3	5	4.2	4122	8	19	16.0	1104	2	18	23.6
BORDER	2690	1	4	2.7	3898	6	15	16.8	2916	8	27	37.2	1024	7	68	56.5
DEFINITE	1044	3	29	30.0	2200	15	68	67.0	2040	19	93	86.2	644	8	124	133.7
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11254	4	4		15814	10	6		11912	32	27		3872	15	39	
NO	8554	3	4	3.7	8740	4	5	4.4	4174	4	10	6.6	894	1	11	7.7
BORDER	2038	1	5	3.2	4622	3	6	7.2	4286	6	14	19.9	1518	3	20	23.8
DEFINITE	662	0	0	2.7	2452	3	12	11.6	3452	22	64	60.1	1460	11	75	73.2
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	2.402	-0.162	1.394	0.486	0.850	1.113	0.878	1.132
SE(B)	0.960	0.951	0.296	0.390	0.221	0.274	0.334	0.462
A	-9.913	-7.204	-7.088	-7.034	-5.744	-6.636	-5.350	-6.472

TABLE 11-19-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: GLUCOSE INTOLERANCE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	882	895	16	11	10	18	12	11	1091	1125	1082	14	9	9	13	8	8	
																			MEN
NO	826	863	877	14	8	8	17	9	9	1068	1109	1063	12	8	8	11	7	8	B 1.143 2.998 2.608
YES	39	19	18	2	3	2	51	158	111	23	16	19	2	1	1	87	63	53	SE(B) 0.774 0.722 0.830
																			A -4.060 -4.672 -4.688
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 2.126 2.216 1.991
																			SE(B) 0.795 1.092 1.087
																			A -4.477 -4.925 -4.882
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	729	746	734	33	28	23	45	38	31	876	905	939	28	21	14	32	23	15	
																			MEN
NO	680	696	691	30	25	19	44	36	27	837	880	906	24	19	12	29	22	13	B 0.346 0.538 1.289
YES	49	50	43	3	3	4	61	60	93	39	25	33	4	2	2	103	80	61	SE(B) 0.624 0.625 0.574
																			A -3.076 -3.290 -3.566
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 1.354 1.371 1.570
																			SE(B) 0.567 0.773 0.785
																			A -3.523 -3.814 -4.311
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	345	492	580	28	32	33	81	65	57	436	610	730	19	30	31	44	49	42	
																			MEN
NO	318	461	535	23	28	27	72	61	50	405	569	680	15	22	23	37	39	34	B 1.070 0.829 1.063
YES	27	31	45	5	4	6	185	129	133	31	41	50	4	8	8	129	195	160	SE(B) 0.541 0.570 0.481
																			A -2.551 -2.739 -2.935
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 1.349 1.796 1.694
																			SE(B) 0.597 0.450 0.440
																			A -3.258 -3.213 -3.352

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 11-19-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: CONGESTIVE HEART FAILURE
CHARACTERISTIC: GLUCOSE INTOLERANCE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	9136	4	4		12642	24	19		9078	35	39		2772	17	61	
NO	8862	2	2	2.3	11932	22	18	18.4	8354	30	36	35.9	2486	14	56	56.3
YES	274	2	73	73.0	710	2	28	28.2	724	5	69	69.1	286	3	105	104.9
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	11254	4	4		15814	10	6		11912	32	27		3872	15	39	
NO	11068	3	3	2.7	15312	7	5	4.6	11164	27	24	24.2	3506	9	26	25.7
YES	186	1	54	53.8	502	3	60	59.8	748	5	67	66.8	366	6	164	163.9
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	3.491	2.998	0.426	2.582	0.661	1.025	0.632	1.882
SE(B)	1.004	1.159	0.741	0.693	0.486	0.490	0.642	0.533
A	-7.703	-7.520	-5.599	-6.996	-4.929	-5.327	-4.475	-5.267

TABLE 12-1-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	83	70	51	96	79	57	1095	1127	1083	67	55	48	61	49	44
074-109	35	72	92	2	4	2	57	56	22	102	204	248	7	6	10	69	29	40
110-119	116	163	192	10	12	9	86	74	47	234	311	312	10	15	12	43	48	38
120-129	185	219	247	18	19	12	97	87	49	280	268	263	15	10	7	54	37	27
130-139	237	207	186	17	11	10	72	53	54	212	180	138	11	7	4	52	39	29
140-149	156	127	101	13	7	6	83	55	59	120	83	67	11	8	7	92	96	104
150-159	56	49	38	9	5	5	161	102	132	68	43	28	9	6	4	132	140	143
160-169	41	22	21	9	7	3	220	318	143	46	17	14	2	2	1	43	118	71
170-179	24	13	10	4	3	3	167	231	300	18	10	6	0	0	1	0	0	167
180-189	7	6	8	1	1	0	143	167	0	7	8	2	2	1	1	286	125	500
190-300	8	5	2	0	1	1	0	200	500	8	3	5	0	0	1	0	0	200
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	165	130	107	226	173	146	883	912	945	101	92	76	114	101	80
074-109	23	49	53	2	4	1	87	82	19	23	50	104	8	6	9	348	120	87
110-119	86	122	138	9	12	18	105	98	130	66	129	165	2	13	6	30	101	36
120-129	149	164	166	22	20	17	148	122	102	142	156	176	12	10	13	85	64	74
130-139	141	167	146	26	32	18	184	192	123	177	182	173	16	13	15	90	71	87
140-149	127	111	109	36	24	21	283	216	193	134	129	104	13	13	5	97	101	48
150-159	77	61	54	14	10	12	182	164	222	110	96	85	8	8	9	73	83	106
160-169	54	33	32	23	10	6	426	303	188	79	64	51	7	11	5	89	172	98
170-179	31	15	18	9	4	5	290	267	278	56	32	40	17	5	4	304	156	100
180-189	18	12	7	8	4	3	444	333	429	42	34	21	6	6	3	143	176	143
190-300	25	16	11	16	10	6	640	625	545	54	40	26	12	7	7	222	175	269
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	128	165	159	368	331	270	437	613	739	87	107	116	199	175	157
074-109	10	25	48	5	11	9	500	440	188	13	17	28	1	3	2	77	176	71
110-119	24	54	83	4	9	11	167	167	133	17	38	56	1	2	2	59	53	36
120-129	54	82	110	14	21	28	259	256	255	41	64	111	8	6	11	195	94	99
130-139	66	106	113	18	29	22	273	274	195	67	86	127	8	10	17	119	116	134
140-149	60	71	66	22	20	18	367	282	273	61	82	93	7	10	12	115	122	129
150-159	52	53	64	16	18	21	308	340	328	66	104	90	17	17	14	258	163	156
160-169	26	41	39	17	17	16	654	415	410	44	70	55	9	18	11	205	257	169
170-179	23	20	17	10	9	4	435	450	235	45	50	60	11	4	12	244	90	200
180-189	11	15	17	6	10	9	545	667	529	26	35	45	7	13	10	269	371	222
190-300	22	32	32	16	21	21	727	656	656	57	67	64	18	24	25	316	358	391
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.013	0.016	0.027
SE(B)	0.006	0.007	0.007
A	-3.947	-4.531	-6.382
WOMEN			
B	0.008	0.016	0.021
SE(B)	0.006	0.007	0.007
A	-3.798	-5.028	-5.682
AGE 45-54 AT EXAM			
MEN			
B	0.026	0.025	0.025
SE(B)	0.004	0.004	0.005
A	-4.972	-4.964	-5.112
WOMEN			
B	0.010	0.009	0.012
SE(B)	0.003	0.004	0.004
A	-3.595	-3.469	-4.080
AGE 55-64 AT EXAM			
MEN			
B	0.022	0.019	0.021
SE(B)	0.005	0.004	0.004
A	-3.726	-3.451	-3.929
WOMEN			
B	0.013	0.019	0.019
SE(B)	0.004	0.004	0.003
A	-3.459	-4.550	-4.558

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 12-1-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	20	22		12496	104	83		9158	165	180		2878	98	341	
074-109	720	0	0	10.2	766	4	52	44.5	528	9	170	108.9	142	7	493	235.1
110-119	1708	4	23	13.4	2092	11	53	54.3	1124	10	89	124.6	246	5	203	260.3
120-129	2300	5	22	17.2	2698	18	67	64.3	1646	28	170	140.2	402	8	199	279.8
130-139	2024	2	10	22.4	2696	22	82	77.1	1740	31	178	159.4	542	16	295	305.6
140-149	1162	2	17	28.9	1790	13	73	92.1	1374	18	131	180.1	474	19	401	330.5
150-159	518	2	39	37.6	1110	11	99	110.1	976	16	164	203.9	362	8	221	357.1
160-169	248	4	161	47.8	606	11	182	130.8	656	17	259	229.2	248	13	524	385.9
170-179	138	0	0	61.8	334	5	150	155.5	430	8	186	258.6	142	4	282	418.0
180-189	64	0	0	80.6	202	1	50	187.7	274	11	401	290.2	126	8	635	454.1
190-300	40	1	250	155.6	202	8	396	272.7	410	17	415	383.3	194	10	515	548.0
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	18	16		15650	75	48		11938	92	77		3978	78	196	
074-109	1992	4	20	11.3	1390	9	65	35.6	444	6	135	61.7	72	0	0	76.9
110-119	2884	3	10	13.5	2668	13	49	39.3	1060	5	47	65.1	212	3	142	92.6
120-129	2638	5	19	15.9	3066	4	13	42.7	1586	11	69	68.3	324	4	123	107.6
130-139	1730	0	0	18.6	3042	12	39	46.5	1956	13	66	71.5	540	9	167	127.9
140-149	864	2	23	22.0	1954	13	67	50.6	1742	8	46	75.0	628	10	159	148.8
150-159	436	2	46	25.6	1384	8	58	54.9	1592	12	75	78.7	580	9	155	174.4
160-169	196	1	51	29.9	796	2	25	59.7	1158	13	112	82.4	498	9	181	203.0
170-179	94	0	0	35.6	526	4	76	64.9	848	6	71	86.4	390	9	231	237.9
180-189	56	0	0	41.5	394	5	127	70.4	642	8	125	90.4	288	6	208	278.2
190-300	44	1	227	64.0	430	5	116	91.2	910	10	110	102.3	446	19	426	409.0
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.026	0.016	0.018	0.009	0.013	0.005	0.009	0.017
SE(B)	0.010	0.011	0.004	0.004	0.003	0.004	0.004	0.004
A	-8.937	-7.759	-6.614	-5.806	-5.135	-4.878	-3.896	-5.859

TABLE 12-2-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	83	70	51	96	79	57	1095	1127	1083	67	55	48	61	49	44
020-069	44	80	94	3	5	2	68	63	21	104	205	230	5	8	9	48	39	39
070-074	110	137	153	12	12	5	109	88	33	198	252	263	10	11	10	51	44	38
075-079	71	93	117	2	6	8	28	65	68	136	154	188	8	8	5	59	52	27
080-084	195	210	186	18	16	9	92	76	48	276	248	179	14	8	8	51	32	45
085-089	113	107	130	13	11	7	115	103	54	102	107	97	7	4	4	69	37	41
090-094	156	115	104	11	6	7	71	52	67	144	76	65	11	10	5	76	132	77
095-099	62	65	45	6	3	3	97	46	67	51	35	29	4	1	4	78	29	138
100-104	63	34	36	10	3	3	159	88	83	50	27	19	4	3	1	80	111	53
105-109	11	21	17	3	5	4	273	238	235	11	13	5	2	2	2	182	154	400
110-160	40	21	15	5	3	3	125	143	200	23	10	8	2	0	0	87	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	165	130	107	226	173	146	883	912	945	101	92	76	114	101	80
020-069	21	59	66	1	9	6	48	153	91	21	63	99	5	7	12	238	111	121
070-074	70	77	97	12	9	12	171	117	124	76	125	132	6	12	6	79	96	45
075-079	59	93	95	9	8	12	153	86	126	82	103	136	4	14	8	49	136	59
080-084	176	146	146	28	17	13	159	116	89	192	187	205	19	17	13	99	91	63
085-089	76	103	101	15	22	15	197	214	149	100	113	123	9	6	8	90	53	65
090-094	131	110	89	34	21	14	260	191	157	162	130	94	19	8	12	117	62	128
095-099	57	60	61	17	14	11	298	233	180	71	55	59	7	9	5	99	164	85
100-104	72	56	33	20	13	9	278	232	273	77	53	40	9	6	2	117	113	50
105-109	23	17	18	8	5	8	348	294	444	27	26	17	7	3	1	259	115	59
110-160	46	29	28	21	12	7	457	414	250	75	57	40	16	10	9	213	175	225
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	128	165	159	368	331	270	437	613	739	87	107	116	199	175	157
020-069	19	42	60	5	11	10	263	262	167	13	31	52	1	5	9	77	161	173
070-074	34	66	95	15	22	29	441	333	305	36	68	82	6	9	12	167	132	146
075-079	40	66	67	7	16	12	175	242	179	27	56	79	2	7	10	74	125	127
080-084	74	93	121	20	22	28	270	237	231	74	110	149	11	11	16	149	100	107
085-089	37	45	68	10	16	15	270	356	221	55	73	103	13	13	20	236	178	194
090-094	56	74	65	24	23	16	429	311	246	82	91	103	16	14	10	195	154	97
095-099	23	31	40	11	12	12	478	387	300	35	60	60	6	14	14	171	233	233
100-104	28	36	20	13	15	7	464	417	350	51	51	41	14	11	6	275	216	146
105-109	7	10	19	2	7	7	286	700	368	12	23	26	3	5	6	250	217	231
110-160	30	36	34	21	21	23	700	583	676	52	50	44	15	18	13	288	360	295
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.016	0.012	0.039
SE(B)	0.009	0.011	0.012
A	-3.668	-3.496	-6.108
WOMEN			
B	0.019	0.021	0.028
SE(B)	0.010	0.011	0.012
A	-4.278	-4.667	-5.245
AGE 45-54 AT EXAM			
MEN			
B	0.035	0.032	0.031
SE(B)	0.007	0.008	0.008
A	-4.410	-4.306	-4.437
WOMEN			
B	0.022	0.009	0.017
SE(B)	0.007	0.008	0.008
A	-4.013	-2.981	-3.838
AGE 55-64 AT EXAM			
MEN			
B	0.034	0.026	0.027
SE(B)	0.008	0.007	0.006
A	-3.531	-2.912	-3.280
WOMEN			
B	0.023	0.027	0.018
SE(B)	0.008	0.007	0.007
A	-3.488	-3.959	-3.292

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 12-2-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	20	22		12496	104	83		9158	165	180		2878	98	341	
020-069	722	0	0	8.9	770	7	91	53.2	724	9	124	114.6	342	16	468	313.1
070-074	1294	2	15	12.0	1526	13	85	61.6	1240	19	153	131.9	478	20	418	324.5
075-079	968	2	21	15.0	1274	8	63	68.5	950	9	95	146.7	310	7	226	331.7
080-084	2222	5	23	18.4	2972	12	40	75.3	2012	36	179	161.9	602	12	199	338.2
085-089	1212	1	8	23.0	1692	19	112	83.5	1008	15	149	179.9	306	9	294	345.9
090-094	1162	4	34	28.3	1778	15	84	92.2	1294	29	224	198.3	368	11	299	352.6
095-099	544	2	37	34.6	844	10	118	101.7	604	8	132	219.4	134	5	373	359.7
100-104	454	2	44	42.2	888	7	79	111.2	646	18	279	240.8	170	8	471	366.6
105-109	132	0	0	52.8	286	0	0	123.8	190	4	211	268.3	36	1	278	376.8
110-160	212	2	94	79.7	466	13	279	149.0	490	18	367	329.8	132	9	682	392.5
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	18	16		15650	75	48		11938	92	77		3978	78	196	
020-069	1880	4	21	9.7	1416	8	56	33.6	766	9	117	77.9	310	6	194	123.4
070-074	2356	2	8	12.4	2432	12	49	38.2	1416	10	71	77.6	470	7	149	143.3
075-079	1544	1	6	14.6	1768	4	23	41.8	1076	14	130	77.4	344	8	233	159.3
080-084	2390	1	4	16.9	3618	15	41	45.2	2552	12	47	77.3	894	12	134	174.1
085-089	1082	2	18	20.0	1878	3	16	49.5	1476	10	68	77.1	388	9	232	193.4
090-094	850	5	59	23.3	1996	11	55	53.7	1890	17	90	76.9	654	9	138	212.0
095-099	338	2	59	27.2	782	6	77	58.1	800	4	50	76.7	296	7	236	233.4
100-104	278	0	0	31.6	810	7	86	63.0	920	4	43	76.6	314	3	96	255.5
105-109	98	1	102	37.8	274	3	109	69.2	298	2	67	76.4	68	4	588	282.7
110-160	118	0	0	55.7	676	6	89	84.5	744	10	134	76.0	240	13	542	341.0
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.043	0.032	0.020	0.017	0.021	-0.000	0.004	0.020
SE(B)	0.017	0.018	0.008	0.008	0.006	0.008	0.008	0.008
A	-9.083	-8.282	-5.836	-6.086	-5.112	-4.116	-2.988	-4.970

TABLE 12-3-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	883	897	83	70	51	96	79	57	1095	1127	1083	67	55	48	61	49	44	
096-189	140	173	174	15	13	14	107	75	80	213	334	331	16	17	12	75	51	36	MEN
190-204	94	100	116	9	6	3	96	60	26	133	206	187	10	9	9	75	44	48	B 0.004 0.005 0.005
205-219	58	137	141	5	6	5	86	44	35	85	153	155	6	7	8	71	46	52	SE(B) 0.003 0.002 0.003
220-234	108	144	133	7	9	3	65	63	23	98	135	131	5	5	5	51	37	38	A -3.090 -3.651 -4.069
235-249	50	95	101	4	9	6	80	95	59	50	90	96	4	7	6	80	78	63	
250-264	53	72	76	8	7	4	151	97	53	46	56	57	3	2	3	65	36	53	WOMEN
265-279	29	54	48	5	6	6	172	111	125	23	55	36	3	4	2	130	73	56	B 0.003 0.001 0.003
280-294	18	32	37	4	5	3	222	156	81	16	28	29	2	1	1	125	36	34	SE(B) 0.004 0.003 0.004
295-309	12	20	23	2	2	2	167	100	87	6	17	25	0	1	1	0	59	40	A -3.223 -3.149 -3.665
310-696	18	29	34	3	3	4	167	103	118	3	15	14	1	0	1	333	0	71	
UNKNOWN	285	27	14	21	4	1				422	38	22	17	2	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	731	750	734	165	130	107	226	173	146	883	912	945	101	92	76	114	101	80	
096-189	77	97	91	13	14	12	169	144	132	74	102	109	7	10	10	95	98	92	MEN
190-204	59	95	84	13	16	16	220	168	190	42	91	97	2	7	4	48	77	41	B 0.001 0.002 -0.000
205-219	51	111	130	17	16	15	333	144	115	55	118	118	6	12	10	109	102	85	SE(B) 0.003 0.003 0.003
220-234	68	129	118	12	22	15	176	171	127	85	145	139	12	16	12	141	110	86	A -1.403 -1.970 -1.713
235-249	50	108	91	14	14	13	280	130	143	42	111	133	3	6	5	71	54	38	
250-264	39	72	86	10	17	11	256	236	128	36	82	98	1	5	8	28	61	82	WOMEN
265-279	27	46	50	7	11	13	259	239	260	41	76	77	4	8	7	98	105	91	B 0.003 0.005 0.005
280-294	27	39	32	7	5	4	259	128	125	31	58	56	5	9	6	161	155	107	SE(B) 0.003 0.002 0.002
295-309	14	21	18	1	4	3	71	190	167	24	33	36	4	5	2	167	152	56	A -2.938 -3.488 -3.765
310-696	11	19	22	2	4	1	182	211	45	38	66	69	5	11	11	132	167	159	
UNKNOWN	308	13	12	69	7	4				415	30	13	52	3	1				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	348	499	589	128	165	159	368	331	270	437	613	739	87	107	116	199	175	157	
096-189	52	90	106	22	32	29	423	356	274	16	31	39	5	10	11	313	323	282	MEN
190-204	32	64	57	8	13	13	250	203	228	20	42	49	1	9	12	50	214	245	B 0.003 0.003 0.001
205-219	31	73	96	13	21	24	419	288	250	22	49	65	9	8	10	409	163	154	SE(B) 0.003 0.002 0.002
220-234	41	61	70	9	13	18	220	213	257	47	98	97	8	16	15	170	163	155	A -1.253 -1.404 -1.319
235-249	30	51	84	12	21	23	400	412	274	28	69	88	4	10	9	143	145	102	
250-264	18	60	75	8	23	20	444	383	267	40	75	104	8	11	17	200	147	163	WOMEN
265-279	15	34	31	6	18	10	400	529	323	29	64	90	4	6	15	138	94	167	B 0.001 -0.002 -0.004
280-294	11	24	31	9	9	8	818	375	258	20	48	55	4	9	5	200	188	91	SE(B) 0.003 0.002 0.002
295-309	9	21	21	3	7	7	333	333	333	19	38	56	2	11	9	105	289	161	A -1.533 -1.149 -0.691
310-696	7	14	16	3	4	6	429	286	375	28	78	84	8	13	12	286	167	143	
UNKNOWN	102	7	2	35	4	1				168	21	12	34	4	1				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 12-3-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	20	22		12496	104	83		9158	165	180		2878	98	341	
096-189	1532	4	26	16.5	1388	20	144	85.8	1106	24	217	211.2	366	22	601	478.0
190-204	1002	1	10	18.7	1220	7	57	84.9	934	18	193	197.5	340	13	382	407.7
205-219	1206	3	25	20.1	1782	7	39	84.4	1168	23	197	189.9	372	8	215	373.2
220-234	1330	0	0	21.7	1850	15	81	83.9	1362	23	169	182.3	444	16	360	341.5
235-249	988	4	40	23.4	1584	9	57	83.4	1262	27	214	175.5	326	13	399	312.1
250-264	804	2	25	25.0	1436	13	91	82.9	1122	7	62	168.7	334	9	269	284.8
265-279	576	1	17	26.9	1026	14	136	82.4	798	21	263	162.1	258	6	233	260.1
280-294	412	1	24	29.1	696	8	115	81.9	522	6	115	155.7	218	1	46	237.4
295-309	254	1	39	31.4	414	5	121	81.4	332	6	181	149.7	92	4	435	216.6
310-696	358	2	56	39.6	566	2	35	80.2	370	6	162	138.0	110	4	364	185.9
UNKNOWN	460	1			534	4			182	4			18	2		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	18	16		15650	75	48		11938	92	77		3978	78	196	
096-189	2930	5	17	14.3	1498	10	67	45.4	490	4	82	63.6	122	8	656	322.6
190-204	1782	3	17	15.5	1462	5	34	46.1	616	4	65	67.5	172	8	465	272.6
205-219	1494	1	7	16.3	1812	6	33	46.6	924	12	130	69.9	278	7	252	251.9
220-234	1352	5	37	17.2	2212	9	41	47.0	1424	8	56	72.5	436	6	138	231.8
235-249	980	1	10	18.1	1948	9	46	47.5	1374	13	95	75.2	504	10	198	213.0
250-264	632	0	0	18.9	1660	12	72	47.9	1592	13	82	77.9	520	5	96	196.5
265-279	442	0	0	19.9	1398	4	29	48.4	1490	8	54	80.7	550	11	200	180.5
280-294	302	0	0	21.0	1046	3	29	48.9	1200	6	50	83.7	412	5	121	164.8
295-309	160	0	0	22.1	680	7	103	49.3	878	6	68	86.9	318	5	157	151.7
310-1124	182	2	110	25.4	1224	6	49	50.6	1626	18	111	95.7	616	11	179	126.2
UNKNOWN	678	1			710	4			324	0			50	2		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.005	0.003	-0.000	0.001	-0.003	0.002	-0.006	-0.006
SE(B)	0.005	0.006	0.002	0.002	0.002	0.002	0.003	0.003
A	-6.556	-6.435	-3.977	-4.804	-2.648	-4.780	-1.148	-1.679

TABLE 12-4-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	83	70	51	96	79	57	1095	1127	1083	67	55	48	61	49	44
067-119	18	26	17	4	1	0	222	38	0	181	275	242	14	12	11	77	44	45
120-124	13	43	25	3	4	3	231	93	120	112	245	188	11	14	8	98	57	43
125-129	24	61	30	3	6	2	125	98	67	98	161	170	7	6	8	71	37	47
130-134	61	125	94	6	7	9	98	56	96	87	196	209	8	11	4	92	56	19
135-139	93	126	109	11	10	8	118	79	73	95	106	121	6	6	5	63	57	41
140-144	104	149	135	10	10	4	96	67	30	47	44	71	2	2	7	43	45	99
145-149	69	107	194	8	8	10	116	75	52	5	20	28	1	0	2	200	0	71
150-154	84	103	111	7	11	3	83	107	27	8	15	14	0	0	1	0	0	71
155-159	44	58	99	4	5	7	91	86	71	2	8	6	0	1	1	0	125	167
160-216	53	51	65	6	5	4	113	98	62	5	3	1	0	0	0	0	0	0
UNKNOWN	302	34	18	21	3	1				455	54	33	18	3	1			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	165	130	107	226	173	146	883	912	945	101	92	76	114	101	80
067-119	11	30	15	4	6	4	364	200	267	78	175	153	9	18	17	115	103	111
120-124	21	44	29	7	7	8	333	159	276	88	195	160	10	23	11	114	118	69
125-129	20	41	29	6	4	5	300	98	172	66	130	146	6	14	12	91	108	82
130-134	43	106	94	10	17	13	233	160	138	76	181	189	13	13	14	171	72	74
135-139	66	102	89	16	16	10	242	157	112	69	93	134	5	7	10	72	75	75
140-144	78	125	137	17	24	22	218	192	161	34	50	65	4	4	5	118	80	77
145-149	52	103	127	11	12	15	212	117	118	16	24	48	0	6	1	0	250	21
150-154	47	89	83	9	16	9	191	180	108	11	13	20	1	2	4	91	154	200
155-159	31	46	63	3	7	8	97	152	127	3	5	8	0	1	0	0	200	0
160-216	35	44	53	12	11	8	343	250	151	1	3	4	0	0	0	0	0	0
UNKNOWN	327	20	15	70	10	5				441	43	18	53	4	2			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	128	165	159	368	331	270	437	613	739	87	107	116	199	175	157
067-119	22	31	24	7	10	9	318	323	375	43	115	98	6	15	9	140	130	92
120-124	12	25	25	5	13	7	417	520	280	47	107	117	11	15	16	234	140	137
125-129	12	34	33	4	13	6	333	382	182	40	92	106	6	18	19	150	196	179
130-134	34	77	53	14	24	17	412	312	321	50	133	179	10	20	23	200	150	128
135-139	35	77	83	14	24	21	400	312	253	39	60	88	6	10	17	154	167	193
140-144	49	92	101	12	22	30	245	239	297	23	46	62	5	11	12	217	239	194
145-149	17	47	106	5	20	26	294	426	245	7	14	43	1	5	9	143	357	209
150-154	26	51	66	12	13	11	462	255	167	5	10	16	2	3	5	400	300	313
155-159	12	32	55	9	10	15	750	313	273	2	6	10	0	3	3	0	500	300
160-216	17	18	39	9	10	15	529	556	385	1	1	2	0	1	2	0	1000	1000
UNKNOWN	112	15	4	37	6	2				180	29	18	40	6	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	-0.016	0.009	-0.005
SE(B)	0.011	0.010	0.013
A	0.234	-3.744	-2.023
WOMEN			
B	-0.020	0.001	0.014
SE(B)	0.012	0.013	0.014
A	0.020	-3.080	-4.878
AGE 45-54 AT EXAM			
MEN			
B	-0.008	0.006	-0.012
SE(B)	0.009	0.008	0.009
A	-0.069	-2.461	-0.058
WOMEN			
B	-0.015	-0.007	-0.018
SE(B)	0.012	0.010	0.010
A	-0.228	-1.258	-0.149
AGE 55-64 AT EXAM			
MEN			
B	0.010	-0.003	-0.003
SE(B)	0.010	0.008	0.008
A	-1.839	-0.295	-0.520
WOMEN			
B	0.002	0.030	0.029
SE(B)	0.015	0.010	0.010
A	-1.709	-5.441	-5.530

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 12-4-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	20	22		12496	104	83		9158	165	180		2878	98	341	
067-119	138	4	290	168.9	148	2	135	96.3	228	8	351	273.2	50	0	0	440.5
120-124	206	2	97	81.6	268	2	75	93.2	196	10	510	241.7	26	1	385	421.5
125-129	282	1	35	61.5	294	4	136	91.3	246	6	244	228.9	52	4	769	402.4
130-134	694	1	14	42.1	848	7	83	89.2	682	15	220	213.3	134	5	373	387.0
135-139	892	2	22	28.7	1076	14	130	87.2	850	10	118	199.4	262	8	305	370.9
140-144	1312	1	8	21.3	1758	16	91	85.4	1396	20	143	187.8	378	17	450	355.9
145-149	1574	3	19	15.2	2144	10	47	83.6	1586	31	195	176.8	454	19	419	343.0
150-154	1304	0	0	10.6	1914	16	84	81.7	1382	19	137	165.6	572	16	280	328.0
155-159	1000	2	20	7.5	1558	10	64	80.0	1168	16	137	155.9	414	13	314	315.8
160-216	980	3	31	4.5	1878	18	96	76.9	1196	25	209	138.6	508	13	256	292.7
UNKNOWN	540	1			610	5			228	5			28	2		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	18	16		15650	75	48		11938	92	77		3978	78	196	
067-119	1964	5	25	19.0	1662	14	84	59.9	980	6	61	44.0	208	5	240	179.2
120-124	1584	1	6	17.6	1746	10	57	51.7	1090	9	83	55.1	252	4	159	185.3
125-129	1550	3	19	17.0	1962	6	31	48.9	1352	8	59	62.3	394	4	102	187.9
130-134	2036	3	15	16.3	2818	5	18	45.9	2388	18	75	71.0	702	15	214	190.8
135-139	1448	1	7	15.7	2568	11	43	43.0	1964	15	76	81.4	692	13	188	193.6
140-144	816	2	25	15.1	1826	9	49	40.5	1638	13	79	92.5	712	14	197	196.4
145-149	428	1	23	14.6	1252	6	48	38.2	1110	5	45	104.7	456	11	241	199.3
150-154	188	1	53	14.0	600	5	83	35.7	554	6	108	119.7	264	6	227	202.2
155-159	78	0	0	13.5	202	1	50	33.7	298	3	101	136.7	156	2	128	205.2
160-216	34	0	0	12.9	156	1	64	30.6	170	9	529	168.8	86	2	233	210.0
UNKNOWN	808	1			858	7			394	0			56	2		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	-0.069	-0.008	-0.004	-0.013	-0.013	0.027	-0.009	0.003
SE(B)	0.017	0.021	0.008	0.009	0.006	0.009	0.009	0.010
A	4.368	-4.710	-3.418	-3.012	-1.353	-7.778	-1.321	-3.636

TABLE 12-5-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	83	70	51	96	79	57	1095	1127	1083	67	55	48	61	49	44
062-159	253	238	128	25	15	6	99	63	47	343	444	216	24	18	5	70	41	23
160-179	83	141	75	10	9	5	120	64	67	104	193	127	9	7	5	87	36	39
180-199	100	156	113	10	11	2	100	71	18	92	151	132	7	12	5	76	79	38
200-219	45	133	125	4	7	3	89	53	24	59	150	186	2	5	7	34	33	38
220-239	34	64	123	7	9	8	206	141	65	39	73	148	5	6	8	128	82	54
240-259	30	36	106	2	3	8	67	83	75	18	32	117	1	2	12	56	63	103
260-279	16	39	77	1	3	6	63	77	78	7	22	59	2	2	2	286	91	34
280-299	3	23	61	1	5	5	333	217	82	3	12	43	0	0	1	0	0	23
300-319	4	13	32	1	1	3	250	77	94	1	4	16	0	0	0	0	0	0
320-968	7	12	39	1	3	4	143	250	103	0	6	9	0	0	1	****	0	111
UNKNOWN	290	28	18	21	4	1				429	40	30	17	3	2			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	165	130	107	226	173	146	883	912	945	101	92	76	114	101	80
062-159	158	212	112	35	27	12	222	127	107	159	204	133	14	18	13	88	88	98
160-179	68	119	81	20	19	11	294	160	136	66	114	90	13	12	8	197	105	89
180-199	47	132	90	9	26	12	191	197	133	72	142	86	4	9	11	56	63	128
200-219	49	117	109	11	22	17	224	188	156	72	170	172	7	25	10	97	147	58
220-239	20	64	91	4	9	13	200	141	143	33	100	95	4	6	4	121	60	42
240-259	27	41	78	4	9	10	148	220	128	19	66	114	2	5	10	105	76	88
260-279	24	29	58	8	4	9	333	138	155	13	52	94	2	11	5	154	212	53
280-299	10	12	50	3	5	8	300	417	160	10	18	60	0	1	3	0	56	50
300-319	4	5	24	1	2	6	250	400	250	5	6	31	1	0	3	200	0	97
320-968	5	4	26	1	0	4	200	0	154	11	7	45	2	2	7	182	286	156
UNKNOWN	319	15	15	69	7	5				423	33	25	52	3	2			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	128	165	159	368	331	270	437	613	739	87	107	116	199	175	157
062-159	92	124	84	35	43	22	380	347	262	72	80	60	15	19	15	208	238	250
160-179	49	83	59	15	22	17	306	265	288	38	80	47	8	15	7	211	188	149
180-199	26	75	68	10	25	22	385	333	324	37	108	86	8	15	14	216	139	163
200-219	31	87	85	13	25	18	419	287	212	40	124	113	8	14	11	200	113	97
220-239	14	55	89	7	20	21	500	364	236	29	79	101	7	14	16	241	177	158
240-259	9	29	83	2	10	22	222	345	265	14	46	112	1	10	16	71	217	143
260-279	14	20	47	8	9	9	571	450	191	15	31	63	1	5	13	67	161	206
280-299	3	12	23	2	6	7	667	500	304	5	23	68	0	6	11	0	261	162
300-319	0	2	29	0	1	12	****	500	414	8	9	41	3	3	6	375	333	146
320-968	3	3	20	0	0	8	0	0	400	6	9	33	1	1	6	167	111	182
UNKNOWN	107	9	2	36	4	1				173	24	15	35	5	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.002	0.004	0.005
SE(B)	0.002	0.002	0.002
A	-2.383	-3.290	-4.017
WOMEN			
B	0.004	0.004	0.006
SE(B)	0.003	0.003	0.003
A	-3.111	-3.709	-4.355
AGE 45-54 AT EXAM			
MEN			
B	0.000	0.003	0.002
SE(B)	0.002	0.002	0.002
A	-1.229	-2.169	-2.338
WOMEN			
B	0.000	0.002	-0.000
SE(B)	0.003	0.002	0.002
A	-2.152	-2.641	-2.339
AGE 55-64 AT EXAM			
MEN			
B	0.001	0.001	0.001
SE(B)	0.002	0.002	0.002
A	-0.595	-0.901	-1.211
WOMEN			
B	-0.002	-0.001	-0.001
SE(B)	0.003	0.002	0.002
A	-1.059	-1.406	-1.408

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 12-5-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	20	22		12496	104	83		9158	165	180		2878	98	341	
062-159	1334	1	7	13.8	1156	9	78	85.5	758	17	224	215.2	64	4	625	349.5
160-179	666	3	45	16.3	654	6	92	85.1	488	10	205	203.6	70	3	429	346.0
180-199	946	2	21	18.0	838	5	60	84.8	620	14	226	196.8	60	2	333	343.9
200-219	906	0	0	19.8	1040	12	115	84.5	810	13	160	190.3	214	5	234	341.6
220-239	892	2	22	21.9	1246	11	88	84.3	980	18	184	184.1	308	16	519	339.4
240-259	946	1	11	23.9	1656	15	91	84.0	1352	23	170	178.2	564	15	266	337.2
260-279	956	2	21	26.2	1630	11	67	83.7	1388	24	173	172.4	544	14	257	335.0
280-299	648	2	31	28.6	1422	12	84	83.5	1054	17	161	167.1	426	13	305	333.1
300-319	510	4	78	31.6	994	7	70	83.2	724	11	152	161.6	336	13	387	330.9
320-968	618	2	32	38.8	1268	12	95	82.7	778	14	180	151.6	274	11	401	327.6
UNKNOWN	500	1			592	4			206	4			18	2		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	18	16		15650	75	48		11938	92	77		3978	78	196	
062-159	2238	3	13	12.7	1336	8	60	70.0	618	3	49	52.2	30	1	333	254.5
160-179	984	0	0	13.9	768	3	39	61.5	464	1	22	58.0	50	1	200	240.7
180-199	1106	2	18	14.7	878	8	91	57.2	613	6	97	61.6	68	3	441	231.5
200-219	1296	2	15	15.5	1572	8	51	52.9	974	6	62	66.2	180	2	111	222.3
220-239	1246	3	24	16.3	1562	12	77	49.2	980	7	71	70.4	224	7	313	213.9
240-259	1184	2	17	17.2	1928	11	57	46.0	1304	10	77	74.7	418	8	191	206.7
260-279	892	3	34	18.1	2030	5	25	42.8	1610	14	87	79.3	656	19	290	199.6
280-299	618	1	16	19.0	1690	5	30	39.9	1510	12	79	84.4	666	7	105	192.6
300-319	364	0	0	20.0	1366	1	7	37.3	1472	14	95	89.5	734	11	150	186.2
320-968	264	0	0	22.0	1710	9	53	32.6	2022	19	94	101.5	888	17	191	174.0
UNKNOWN	742	2			810	5			366	0			64	2		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.005	0.003	-0.000	-0.004	-0.002	0.003	-0.000	-0.002
SE(B)	0.003	0.004	0.002	0.007	0.001	0.002	0.002	0.002
A	-6.508	-6.315	-4.030	-3.781	-2.873	-4.978	-2.541	-2.666

TABLE 12-6-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	83	70	51	96	79	57	1095	1127	1083	67	55	48	61	49	44
029-059	16	21	17	2	3	1	125	143	59	12	18	20	1	1	1	83	56	50
060-069	153	138	147	14	10	11	92	72	75	149	176	171	16	9	8	107	51	47
070-079	215	316	326	28	21	22	130	66	67	287	397	391	16	15	18	56	38	46
080-089	182	219	221	17	24	8	93	110	36	237	303	305	16	15	12	68	50	39
090-099	71	105	113	7	4	5	99	38	44	92	128	111	2	6	3	22	47	27
100-109	30	39	42	3	3	1	100	77	24	34	45	33	3	6	4	88	133	121
110-119	17	13	11	1	1	1	59	77	91	14	17	15	1	0	0	71	0	0
120-129	7	2	6	2	0	1	286	0	167	5	7	5	0	1	0	0	143	0
130-139	5	5	3	0	1	0	0	200	0	2	1	4	0	0	0	0	0	0
140-524	4	5	4	0	2	1	0	400	250	4	5	7	3	1	1	750	200	143
UNKNOWN	165	20	7	9	1	0				259	30	21	9	1	1			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	165	130	107	226	173	146	883	912	945	101	92	76	114	101	80
029-059	11	15	13	4	3	3	364	200	231	5	10	14	0	1	0	0	100	0
060-069	103	98	102	23	14	13	223	143	127	88	123	122	10	14	10	114	114	82
070-079	156	252	227	30	45	37	192	179	163	171	263	332	22	22	25	129	84	75
080-089	132	185	212	28	22	17	212	119	80	196	284	267	16	28	20	82	99	75
090-099	79	102	91	21	18	18	266	176	198	87	114	117	7	10	7	80	88	60
100-109	20	37	43	8	8	6	400	216	140	46	50	37	8	6	2	174	120	54
110-119	13	24	14	3	6	3	231	250	214	14	23	21	0	1	2	0	43	95
120-129	3	7	6	1	3	1	333	429	167	6	3	4	0	0	0	0	0	0
130-139	6	2	3	1	0	1	167	0	333	2	4	5	1	1	2	500	250	400
140-524	15	17	15	10	7	6	667	412	400	9	13	15	4	7	7	444	538	467
UNKNOWN	193	11	8	36	4	2				259	25	11	33	2	1			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	128	165	159	368	331	270	437	613	739	87	107	116	199	175	157
029-059	8	9	7	3	3	4	375	333	571	5	15	12	1	4	2	200	267	167
060-069	40	70	80	12	21	13	300	300	163	35	60	62	7	14	16	200	233	258
070-079	91	152	172	38	54	46	418	355	267	95	164	211	16	21	26	168	128	123
080-089	72	129	147	28	41	39	389	318	265	91	171	228	19	23	29	209	135	127
090-099	38	58	94	14	14	24	368	241	255	55	99	99	9	18	11	164	182	111
100-109	13	23	31	6	7	11	462	304	355	24	46	56	5	7	14	208	152	250
110-119	8	21	18	2	9	5	250	429	278	4	9	18	0	3	4	0	333	222
120-129	3	8	15	1	3	5	333	375	333	6	12	18	2	5	5	333	417	278
130-139	2	2	4	0	0	1	0	0	250	4	1	3	1	1	1	250	1000	333
140-524	10	15	18	5	7	10	500	467	556	14	18	23	4	7	7	286	389	304
UNKNOWN	63	12	3	19	6	1				104	18	9	23	4	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	-0.003	0.010	0.005
SE(B)	0.008	0.007	0.006
A	-1.931	-3.285	-3.241
WOMEN			
B	0.014	0.016	0.001
SE(B)	0.006	0.009	0.009
A	-3.753	-4.265	-3.128
AGE 45-54 AT EXAM			
MEN			
B	0.011	0.010	0.008
SE(B)	0.003	0.004	0.004
A	-2.128	-2.432	-2.463
WOMEN			
B	0.010	0.018	0.016
SE(B)	0.005	0.005	0.004
A	-2.996	-3.682	-3.826
AGE 55-64 AT EXAM			
MEN			
B	0.002	0.004	0.010
SE(B)	0.004	0.003	0.003
A	-0.634	-1.098	-1.877
WOMEN			
B	0.001	0.007	0.007
SE(B)	0.004	0.003	0.003
A	-1.495	-2.212	-2.324

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 12-6-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	20	22		12496	104	83		9158	165	180		2878	98	341	
029-059	296	1	34	15.0	350	4	114	86.7	264	7	265	161.3	70	0	0	258.4
060-069	1734	3	17	17.3	2276	20	88	86.0	1486	15	101	167.0	498	18	361	280.9
070-079	2946	12	41	19.5	4068	34	84	85.3	2800	44	157	172.3	818	29	355	299.8
080-089	2084	0	0	22.1	2882	20	69	84.7	2216	48	217	177.8	652	15	230	321.7
090-099	914	2	22	25.1	1356	13	96	84.0	1082	22	203	183.7	420	12	286	345.8
100-109	350	0	0	28.6	552	8	145	83.3	454	5	110	189.7	142	8	563	370.3
110-119	160	0	0	32.6	258	1	39	82.6	248	9	363	196.5	70	4	571	399.2
120-129	52	0	0	37.1	104	0	0	82.0	136	2	147	203.4	42	1	238	430.0
130-139	36	0	0	43.4	58	1	172	81.3	60	3	500	210.4	36	1	278	454.7
140-524	58	1	172	178.1	244	2	82	76.6	256	6	234	270.1	106	8	755	820.6
UNKNOWN	292	1			348	1			156	4			24	2		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	18	16		15650	75	48		11938	92	77		3978	78	196	
029-059	260	0	0	54.7	308	1	32	30.2	244	2	82	70.7	64	1	156	137.9
060-069	1864	8	43	29.9	2716	8	29	34.9	1526	14	92	73.2	474	10	211	151.9
070-079	3868	4	10	17.1	5262	23	44	39.8	3776	33	87	75.6	1250	15	120	166.4
080-089	2880	5	17	9.6	3944	19	48	45.5	3206	20	62	78.0	1016	19	187	181.5
090-099	986	0	0	5.2	1630	5	31	52.2	1478	8	54	80.6	536	18	336	198.5
100-109	322	0	0	2.9	632	5	79	59.9	642	5	78	83.4	262	3	115	216.6
110-119	136	0	0	1.5	294	2	68	69.2	272	4	147	86.3	88	2	227	239.2
120-129	48	0	0	0.8	100	0	0	78.8	204	2	98	89.2	100	1	100	261.5
130-139	20	0	0	0.4	40	1	250	91.7	58	0	0	92.4	34	1	294	282.8
140-524	58	0	0	0.1	170	6	353	308.4	294	4	136	123.0	112	6	536	598.0
UNKNOWN	492	1			554	5			238	0			42	2		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.013	-0.061	-0.001	0.014	0.003	0.003	0.008	0.009
SE(B)	0.004	0.025	0.004	0.003	0.002	0.003	0.002	0.003
A	-6.526	-1.135	-3.990	-5.879	-3.591	-4.434	-3.331	-4.075

TABLE 12-7-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH
CHARACTERISTIC: URIC ACID (MG/LITER)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	83	70	51	96	79	57	1095	1127	1083	67	55	48	61	49	44
005-029	30	15	22	3	0	3	100	0	136	188	170	170	15	9	9	80	53	53
030-034	36	41	29	8	4	4	222	98	138	120	208	255	6	8	8	50	38	31
035-039	77	53	64	9	3	3	117	57	47	124	273	267	5	11	9	40	40	34
040-044	77	138	151	7	12	8	91	87	53	112	219	209	7	11	13	63	50	62
045-049	90	159	183	7	12	7	78	75	38	66	117	88	9	6	5	136	51	57
050-054	98	153	175	10	12	12	102	78	69	22	56	44	0	2	1	0	36	23
055-059	74	121	139	9	10	4	122	83	29	23	28	20	4	1	1	174	36	50
060-064	43	87	67	4	8	3	93	92	45	6	9	3	2	2	0	333	222	0
065-069	29	53	29	3	4	3	103	75	103	4	4	4	2	2	1	500	500	250
070-104	24	35	24	1	1	3	42	29	125	5	4	1	0	0	0	0	0	0
UNKNOWN	287	28	14	22	4	1				425	39	22	17	3	1			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	165	130	107	226	173	146	883	912	945	101	92	76	114	101	80
005-029	23	18	9	4	3	0	174	167	0	88	101	103	8	8	9	91	79	87
030-034	27	23	25	2	4	3	74	174	120	73	114	162	8	10	8	110	88	49
035-039	46	67	49	8	11	9	174	164	184	80	176	203	8	12	16	100	68	79
040-044	51	103	124	18	15	19	353	146	153	73	178	185	5	11	7	68	62	38
045-049	75	127	153	19	26	18	253	205	118	76	121	134	8	19	12	105	157	90
050-054	60	117	139	16	16	23	267	137	165	36	87	87	4	12	9	111	138	103
055-059	57	110	93	12	22	13	211	200	140	15	61	41	2	9	8	133	148	195
060-064	37	78	79	9	11	10	243	141	127	14	26	10	1	2	2	71	77	200
065-069	22	47	30	2	7	3	91	149	100	8	8	4	4	2	2	500	250	500
070-104	24	47	20	6	8	5	250	170	250	3	7	2	0	2	1	0	286	500
UNKNOWN	309	13	13	69	7	4				417	33	14	53	5	2			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	128	165	159	368	331	270	437	613	739	87	107	116	199	175	157
005-029	9	8	5	4	4	3	444	500	600	26	60	53	4	11	6	154	183	113
030-034	19	21	15	8	6	1	421	286	67	39	72	99	8	10	14	205	139	141
035-039	26	47	60	6	12	12	231	255	200	49	104	138	10	20	23	204	192	167
040-044	38	61	92	13	18	20	342	295	217	60	119	174	13	16	24	217	134	138
045-049	40	85	116	16	29	33	400	341	284	38	102	124	5	13	15	132	127	121
050-054	39	84	116	18	23	33	462	274	284	27	61	66	3	11	11	111	180	167
055-059	33	73	92	11	31	29	333	425	315	16	38	39	4	9	11	250	237	282
060-064	19	61	50	8	22	14	421	361	280	4	20	17	2	4	4	500	200	235
065-069	12	29	26	4	7	10	333	241	385	4	10	11	1	5	5	250	500	455
070-104	11	22	14	6	9	3	545	409	214	4	6	6	2	4	2	500	667	333
UNKNOWN	102	8	3	34	4	1				170	21	12	35	4	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	-0.012	-0.002	-0.004
SE(B)	0.011	0.012	0.015
A	-1.551	-2.376	-2.601
WOMEN			
B	0.026	0.018	0.010
SE(B)	0.013	0.015	0.018
A	-3.475	-3.676	-3.437
AGE 45-54 AT EXAM			
MEN			
B	0.005	-0.000	0.007
SE(B)	0.009	0.008	0.011
A	-1.456	-1.598	-2.167
WOMEN			
B	0.016	0.027	0.038
SE(B)	0.014	0.011	0.013
A	-2.797	-3.378	-4.001
AGE 55-64 AT EXAM			
MEN			
B	0.008	0.011	0.015
SE(B)	0.011	0.009	0.010
A	-0.877	-1.257	-1.759
WOMEN			
B	0.014	0.023	0.028
SE(B)	0.015	0.010	0.010
A	-2.021	-2.566	-2.868

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 12-7-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH
CHARACTERISTIC: URIC ACID (MG/LITER)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	20	22		12496	104	83		9158	165	180		2878	98	341	
005-029	190	0	0	20.1	184	1	54	72.2	88	2	227	137.4	40	2	500	350.0
030-034	352	0	0	20.7	372	4	108	75.0	330	8	242	148.9	112	4	357	346.5
035-039	642	1	16	21.2	1004	9	90	77.1	808	6	74	155.9	250	7	280	343.9
040-044	1408	3	21	21.7	1830	14	77	79.2	1460	26	178	164.7	534	20	375	340.8
045-049	1654	5	30	22.2	2436	18	74	81.4	1914	36	188	173.5	534	15	281	338.0
050-054	1592	5	31	22.7	2344	19	81	83.7	1568	26	166	182.5	480	18	375	335.4
055-059	1226	3	24	23.2	1696	15	88	86.2	1300	24	185	192.1	448	15	335	332.6
060-064	712	1	14	23.7	1048	6	57	88.5	840	18	214	202.2	254	6	236	329.8
065-069	406	1	25	24.3	532	8	150	91.1	368	9	245	213.0	118	7	593	327.3
070-104	266	0	0	25.4	466	5	107	96.3	282	6	213	235.1	82	2	244	322.4
UNKNOWN	474	1			584	5			200	4			26	2		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	18	16		15650	75	48		11938	92	77		3978	78	196	
005-029	1824	4	22	18.9	2154	5	23	29.0	1036	6	58	42.4	266	5	188	139.5
030-034	2292	2	9	16.7	2698	14	52	35.7	1610	17	106	53.7	484	11	227	157.0
035-039	2484	6	24	15.5	3428	12	35	41.8	2352	10	43	63.7	780	13	167	172.5
040-044	2008	2	10	14.3	3162	12	38	49.2	2714	16	59	76.4	874	14	160	190.0
045-049	888	1	11	13.2	1700	13	76	57.8	1874	15	80	91.9	740	14	189	209.7
050-054	382	0	0	12.1	972	6	62	68.1	1050	8	76	109.9	402	8	199	231.6
055-059	224	0	0	11.1	434	3	69	79.8	504	7	139	130.5	220	4	182	251.0
060-064	66	1	152	10.3	206	1	49	92.9	240	5	208	154.6	66	2	303	276.5
065-069	32	0	0	9.4	98	2	204	110.6	142	7	493	186.4	36	1	278	303.1
070-104	26	0	0	8.2	28	1	357	133.6	64	1	156	242.9	38	4	1053	363.3
UNKNOWN	708	2			770	6			352	0			72	2		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.005	-0.017	0.006	0.033	0.011	0.037	-0.002	0.020
SE(B)	0.022	0.030	0.010	0.013	0.008	0.010	0.011	0.012
A	-5.631	-5.158	-4.374	-6.007	-3.843	-5.720	-2.538	-4.087

TABLE 12-8-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	83	70	51	96	79	57	1095	1127	1083	67	55	48	61	49	44
052-084	98	85	73	13	11	7	133	129	96	196	196	174	19	10	10	97	51	57
085-089	78	77	83	11	8	8	141	104	96	129	150	159	5	10	9	39	67	57
090-094	105	114	94	11	12	4	105	105	43	153	179	166	8	7	5	52	39	30
095-099	122	137	142	14	10	6	115	73	42	153	155	142	2	4	4	13	26	28
100-104	108	104	119	8	8	3	74	77	25	120	110	130	5	2	4	42	18	31
105-109	112	105	117	6	4	5	54	38	43	96	92	84	9	4	3	94	43	36
110-114	88	100	107	6	5	8	68	50	75	64	60	60	2	5	3	31	83	50
115-119	58	63	58	6	5	3	103	79	52	45	57	45	5	4	2	111	70	44
120-124	40	42	43	4	5	6	100	119	140	29	39	37	2	2	2	69	51	54
125-226	51	51	56	4	2	1	78	39	18	99	76	76	10	6	5	101	79	66
UNKNOWN	5	5	5	0	0	0				11	13	10	0	1	1			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	165	130	107	226	173	146	883	912	945	101	92	76	114	101	80
052-084	57	65	64	11	11	7	193	169	109	69	82	93	13	12	12	188	146	129
085-089	51	51	52	16	8	7	314	157	135	56	75	90	8	9	3	143	120	33
090-094	103	84	83	14	12	15	136	143	181	83	89	109	7	7	6	84	79	55
095-099	98	120	94	21	22	16	214	183	170	124	120	141	10	11	9	81	92	64
100-104	111	108	117	31	17	14	279	157	120	127	128	122	12	6	6	94	47	49
105-109	120	107	109	23	15	13	192	140	119	101	103	101	5	13	7	50	126	69
110-114	68	91	85	15	17	15	221	187	176	80	84	81	11	11	8	138	131	99
115-119	52	54	61	8	11	12	154	204	197	63	69	61	10	11	12	159	159	197
120-124	23	29	26	4	4	2	174	138	77	52	46	35	8	0	1	154	0	29
125-226	43	37	40	19	12	6	442	324	150	123	112	109	17	12	12	138	107	110
UNKNOWN	5	4	3	3	1	0				5	4	3	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	128	165	159	368	331	270	437	613	739	87	107	116	199	175	157
052-084	47	53	50	18	22	20	383	415	400	30	40	50	3	7	11	100	175	220
085-089	24	34	44	9	10	8	375	294	182	25	38	48	7	5	9	280	132	188
090-094	31	49	62	10	16	14	323	327	226	39	57	63	6	5	4	154	88	63
095-099	55	83	90	18	23	28	327	277	311	47	73	101	10	11	11	213	151	109
100-104	54	71	90	21	30	23	389	423	256	51	84	103	5	16	21	98	190	204
105-109	35	63	85	15	19	21	429	302	247	39	57	85	6	8	8	154	140	94
110-114	39	59	78	8	19	12	205	322	154	47	64	57	13	10	8	277	156	140
115-119	24	41	37	13	8	14	542	195	378	43	44	63	6	3	10	140	68	159
120-124	20	24	25	8	10	7	400	417	280	29	50	46	4	14	9	138	280	196
125-226	15	19	27	6	6	11	400	316	407	85	105	120	25	27	24	294	257	200
UNKNOWN	4	3	1	2	2	1				2	1	3	2	1	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	-0.014	-0.020	-0.012
SE(B)	0.008	0.009	0.011
A	-0.798	-0.393	-1.572
WOMEN			
B	0.007	0.006	0.002
SE(B)	0.007	0.008	0.009
A	-3.470	-3.606	-3.261
AGE 45-54 AT EXAM			
MEN			
B	0.011	0.010	0.003
SE(B)	0.007	0.007	0.008
A	-2.379	-2.644	-2.066
WOMEN			
B	0.004	-0.003	0.008
SE(B)	0.006	0.006	0.006
A	-2.450	-1.895	-3.237
AGE 55-64 AT EXAM			
MEN			
B	-0.001	-0.007	-0.002
SE(B)	0.008	0.007	0.007
A	-0.401	-0.012	-0.768
WOMEN			
B	0.012	0.012	0.004
SE(B)	0.006	0.005	0.005
A	-2.735	-2.858	-2.134

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 12-8-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	20	22		12496	104	83		9158	165	180		2878	98	341	
052-084	752	5	66	47.2	966	10	104	140.5	772	19	246	220.7	336	19	565	454.9
085-089	724	2	28	35.4	932	13	139	115.4	618	13	210	205.2	232	7	302	401.0
090-094	958	3	31	29.8	1344	18	134	102.0	944	18	191	196.5	286	11	385	374.1
095-099	1414	1	7	24.7	1764	20	113	90.5	1430	36	252	188.2	414	10	242	348.8
100-104	1198	2	17	20.5	1880	12	64	80.0	1512	21	139	180.3	400	12	300	326.7
105-109	1150	2	17	17.3	1812	11	61	71.1	1324	13	98	172.8	402	12	299	306.1
110-114	1024	1	10	14.5	1438	6	42	63.0	1022	18	176	165.6	366	10	273	284.8
115-119	644	2	31	12.1	914	4	44	55.7	656	9	137	158.6	176	7	398	268.0
120-124	430	2	47	10.0	584	4	68	49.2	474	11	232	151.8	104	3	288	247.6
125-226	578	0	0	6.9	798	4	50	38.5	376	7	186	137.9	148	5	338	215.4
UNKNOWN	50	0			64	2			30	0			14	2		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	18	16		15650	75	48		11938	92	77		3978	78	196	
052-084	1884	4	21	20.9	1678	15	89	46.4	932	14	150	110.0	428	14	327	202.2
085-089	1494	4	27	18.3	1692	12	71	47.0	920	8	87	98.0	244	6	246	199.5
090-094	1690	2	12	16.9	1916	4	21	47.4	1176	8	68	91.8	356	5	140	198.1
095-099	1524	0	0	15.7	2300	5	22	47.8	1634	11	67	85.6	490	6	122	196.7
100-104	1182	2	17	14.4	1926	6	31	48.2	1522	11	72	80.1	488	7	143	195.3
105-109	814	2	25	13.3	1572	8	51	48.6	1340	13	97	74.8	460	10	217	193.9
110-114	612	1	16	12.3	1208	5	41	48.9	1158	8	69	69.9	336	3	89	192.5
115-119	490	1	20	11.4	906	5	55	49.3	852	4	47	65.2	300	7	233	191.1
120-124	316	0	0	10.5	626	3	48	49.7	628	3	48	60.9	230	8	348	189.8
125-226	822	1	12	8.0	1724	12	70	51.4	1732	12	69	47.9	636	11	173	185.4
UNKNOWN	106	1			102	0			44	0			10	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	-0.036	-0.016	-0.025	0.002	-0.009	-0.014	-0.015	-0.002
SE(B)	0.018	0.017	0.007	0.006	0.006	0.006	0.008	0.006
A	-1.774	-4.206	-1.581	-4.802	-2.364	-2.697	-1.157	-3.049

TABLE 12-9-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	83	70	51	96	79	57	1095	1127	1083	67	55	48	61	49	44
05-14	1	0	1	0	0	0	0	****	0	9	12	7	0	1	0	0	83	0
15-19	1	5	3	0	0	0	0	0	0	62	46	28	4	3	3	65	65	107
20-24	12	13	10	4	2	1	333	154	100	234	190	191	19	5	6	81	26	31
25-29	43	45	30	6	8	3	140	178	100	415	477	411	26	27	24	63	57	58
30-34	157	128	135	17	11	13	108	86	96	285	310	332	15	17	12	53	55	36
35-39	250	256	249	22	18	15	88	70	60	70	81	96	1	1	2	14	12	21
40-44	237	269	257	22	20	11	93	74	43	10	7	15	2	0	0	200	0	0
45-49	116	120	146	11	9	7	95	75	48	2	2	1	0	0	0	0	0	0
50-54	33	38	56	1	2	1	30	53	18	1	0	0	0	0	0	0	****	****
55-61	5	7	9	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
UNKNOWN	10	2	1	0	0	0				7	2	2	0	1	1			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	165	130	107	226	173	146	883	912	945	101	92	76	114	101	80
05-14	1	1	0	1	1	0	1000	1000	****	20	30	22	8	12	3	400	400	136
15-19	3	5	5	1	2	0	333	400	0	109	120	94	22	16	16	202	133	170
20-24	25	17	18	12	6	4	480	353	222	331	308	312	38	32	26	115	104	83
25-29	76	74	87	24	17	19	316	230	218	276	314	340	25	25	24	91	80	71
30-34	176	203	196	40	37	28	227	182	143	125	123	153	7	4	6	56	33	39
35-39	228	234	212	47	39	32	206	167	151	16	15	22	1	3	1	63	200	45
40-44	148	159	153	30	23	19	203	145	124	2	1	2	0	0	0	0	0	0
45-49	54	44	49	8	3	4	148	68	82	0	0	0	0	0	0	****	****	****
50-54	15	11	11	0	2	1	0	182	91	0	0	0	0	0	0	****	****	****
55-61	2	2	2	1	0	0	500	0	0	0	0	0	0	0	0	****	****	****
UNKNOWN	3	0	1	1	0	0				4	1	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	128	165	159	368	331	270	437	613	739	87	107	116	199	175	157
05-14	1	3	4	1	2	2	1000	667	500	26	47	53	6	13	15	231	277	283
15-19	3	14	7	2	7	3	667	500	429	85	142	157	18	31	36	212	218	229
20-24	19	37	43	11	17	21	579	459	488	207	256	313	46	43	40	222	168	128
25-29	71	89	111	33	40	40	465	449	360	85	141	169	12	16	23	141	113	136
30-34	107	144	173	33	46	41	308	319	237	24	24	41	3	4	1	125	167	24
35-39	96	145	172	35	39	38	365	269	221	4	2	5	1	0	1	250	0	200
40-44	35	50	61	8	12	10	229	240	164	0	0	0	0	0	0	****	****	****
45-49	8	13	12	1	1	2	125	77	167	0	0	0	0	0	0	****	****	****
50-54	1	1	4	1	0	2	1000	0	500	0	0	0	0	0	0	****	****	****
55-61	0	0	0	0	0	0	****	****	****	0	0	0	0	0	0	****	****	****
UNKNOWN	7	3	2	3	1	0				6	1	1	1	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	-0.043	-0.032	-0.051
SE(B)	0.018	0.019	0.022
A	-0.608	-1.204	-0.815
WOMEN			
B	-0.026	-0.015	-0.034
SE(B)	0.024	0.028	0.029
A	-2.028	-2.573	-2.144
AGE 45-54 AT EXAM			
MEN			
B	-0.057	-0.052	-0.037
SE(B)	0.014	0.015	0.017
A	0.784	0.277	-0.462
WOMEN			
B	-0.097	-0.096	-0.084
SE(B)	0.022	0.021	0.024
A	0.231	0.042	-0.425
AGE 55-64 AT EXAM			
MEN			
B	-0.061	-0.068	-0.062
SE(B)	0.020	0.015	0.015
A	1.435	1.481	1.029
WOMEN			
B	-0.045	-0.074	-0.074
SE(B)	0.025	0.021	0.020
A	-0.422	-0.001	-0.120

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 12-9-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	20	22		12496	104	83		9158	165	180		2878	98	341	
05-14	6	1	1667	185.5	10	1	1000	429.2	28	2	714	623.1	14	3	2143	1083.3
15-19	28	0	0	124.4	76	3	395	274.7	126	6	476	444.4	94	10	1064	804.0
20-24	98	0	0	84.6	308	6	195	196.0	534	17	318	336.3	318	12	377	569.8
25-29	338	4	118	55.0	1126	15	133	143.8	1688	50	296	247.7	716	28	391	404.0
30-34	1328	2	15	36.9	2826	25	88	105.0	2616	33	126	184.3	988	34	344	282.7
35-39	2422	7	29	24.2	3824	28	73	75.2	2568	41	160	136.5	536	7	131	194.4
40-44	2576	3	12	16.1	2854	22	77	54.6	1178	12	102	101.4	164	2	122	135.8
45-49	1378	2	15	10.6	1102	4	36	39.2	300	2	67	73.8	30	0	0	91.5
50-54	600	1	17	7.0	304	0	0	27.9	80	1	125	52.8	4	1	2500	67.2
55-61	124	0	0	4.5	60	0	0	19.9	10	1	1000	41.2	2	0	0	45.1
UNKNOWN	24	0			6	0			30	0			12	1		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	18	16		15650	75	48		11938	92	77		3978	78	196	
05-14	54	0	0	15.7	216	1	46	134.1	548	8	146	175.4	450	24	533	455.0
15-19	356	0	0	15.7	1220	13	107	86.7	2236	29	130	108.5	1188	22	185	240.4
20-24	1770	4	23	15.6	4504	26	58	59.6	5016	33	66	76.0	1608	23	143	144.4
25-29	4288	6	14	15.6	5948	27	45	41.3	3214	19	59	52.4	630	8	127	83.8
30-34	3224	7	22	15.6	3120	5	16	28.8	808	2	25	36.3	98	1	102	47.9
35-39	1050	0	0	15.6	564	3	53	19.3	98	1	102	24.9	4	0	0	29.9
40-44	142	0	0	15.5	56	0	0	13.1	2	0	0	16.5	0	0	*****	******
45-49	16	0	0	15.5	8	0	0	8.7	2	0	0	10.2	0	0	*****	******
50-54	0	0	*****	******	0	0	*****	******	0	0	*****	******	0	0	*****	******
55-61	2	0	0	15.5	0	0	*****	******	0	0	*****	******	0	0	*****	******
UNKNOWN	32	1			14	0			14	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	-0.086	-0.000	-0.069	-0.080	-0.065	-0.080	-0.081	-0.119
SE(B)	0.031	0.048	0.015	0.023	0.012	0.021	0.017	0.024
A	-2.138	-5.757	-1.645	-2.636	-1.176	-2.415	-0.260	-0.935

TABLE 12-10-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	883	897	83	70	51	96	79	57	1095	1127	1083	67	55	48	61	49	44	
NONE	0	121	119	0	14	9	****	116	76	0	331	310	0	11	11	****	33	35	MEN
000-009	0	255	274	0	10	9	****	39	33	0	448	442	0	22	16	****	49	36	B******* 0.002 0.003
010-019	0	128	126	0	10	7	****	78	56	0	101	98	0	6	6	****	59	61	SE(B)****** 0.003 0.003
020-029	0	77	75	0	6	4	****	78	53	0	61	55	0	4	4	****	66	73	A******* -2.546 -2.896
030-039	0	45	54	0	6	5	****	133	93	0	35	32	0	2	2	****	57	63	
040-049	0	46	45	0	2	1	****	43	22	0	15	13	0	0	0	****	0	0	WOMEN
050-059	0	26	26	0	4	4	****	154	154	0	8	7	0	0	0	****	0	0	B******* -0.004 0.003
060-069	0	24	22	0	2	2	****	83	91	0	21	22	0	0	1	****	0	45	SE(B)****** 0.010 0.008
070-079	0	17	16	0	1	0	****	59	0	0	5	5	0	1	1	****	200	200	A******* -3.031 -3.176
080-457	0	60	58	0	6	5	****	100	86	0	10	9	0	0	0	****	0	0	
UNKNOWN	865	84	82	83	9	5				1095	92	90	67	9	7				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	731	750	734	165	130	107	226	173	146	883	912	945	101	92	76	114	101	80	
NONE	0	137	124	0	27	16	****	197	129	0	378	372	0	34	25	****	90	67	MEN
000-009	0	205	200	0	25	21	****	122	105	0	316	343	0	37	34	****	117	99	B******* 0.004 0.006
010-019	0	77	78	0	11	10	****	143	128	0	54	54	0	6	5	****	111	93	SE(B)****** 0.003 0.003
020-029	0	55	61	0	8	9	****	145	148	0	35	39	0	1	1	****	29	26	A******* -1.732 -2.006
030-039	0	65	62	0	12	10	****	185	161	0	31	34	0	3	2	****	97	59	
040-049	0	35	35	0	9	5	****	257	143	0	16	17	0	2	2	****	125	118	WOMEN
050-059	0	29	25	0	4	3	****	138	120	0	4	3	0	0	0	****	0	0	B******* -0.005 -0.006
060-069	0	24	31	0	6	6	****	250	194	0	7	10	0	1	1	****	143	100	SE(B)****** 0.009 0.010
070-079	0	6	8	0	0	1	****	0	125	0	1	1	0	0	0	****	0	0	A******* -2.176 -2.413
080-457	0	51	43	0	11	9	****	216	209	0	7	7	0	0	0	****	0	0	
UNKNOWN	731	66	67	165	17	17				883	63	65	101	8	6				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	348	499	589	128	165	159	368	331	270	437	613	739	87	107	116	199	175	157	
NONE	0	117	133	0	40	38	****	342	286	0	304	362	0	61	66	****	201	182	MEN
000-009	0	148	169	0	43	39	****	291	231	0	187	226	0	24	30	****	128	133	B******* 0.002 0.002
010-019	0	38	53	0	11	13	****	289	245	0	19	33	0	2	4	****	105	121	SE(B)****** 0.003 0.003
020-029	0	24	30	0	8	8	****	333	267	0	20	26	0	1	1	****	50	38	A******* -0.784 -1.044
030-039	0	36	43	0	12	12	****	333	279	0	19	21	0	2	2	****	105	95	
040-049	0	23	29	0	7	10	****	304	345	0	5	7	0	1	1	****	200	143	WOMEN
050-059	0	12	17	0	4	4	****	333	235	0	2	4	0	1	1	****	500	250	B******* 0.013 0.006
060-069	0	8	8	0	2	2	****	250	250	0	1	1	0	1	1	****	1000	1000	SE(B)****** 0.006 0.006
070-079	0	12	13	0	5	5	****	417	385	0	2	1	0	1	0	****	500	0	A******* -1.650 -1.712
080-457	0	35	46	0	15	14	****	429	304	0	5	5	0	3	2	****	600	400	
UNKNOWN	348	46	48	128	18	14				437	49	53	87	10	8				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 12-10-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	20	22		12496	104	83		9158	165	180		2878	98	341	
NONE	1016	2	20	20.6	1824	18	99	72.0	1902	48	252	189.8	680	28	412	338.2
000-009	2294	5	22	20.8	3060	22	72	73.1	2322	34	146	188.5	792	21	265	338.3
010-019	1030	2	19	21.2	1302	10	77	76.8	806	15	186	183.7	244	7	287	338.6
020-029	604	0	0	21.6	852	5	59	80.6	534	8	150	179.1	192	8	417	338.9
030-039	436	2	46	22.0	898	6	67	84.0	632	9	142	175.4	216	7	324	339.2
040-049	386	0	0	22.5	622	6	96	88.7	486	9	185	170.5	132	6	455	339.5
050-059	160	1	63	22.9	274	3	109	92.6	192	2	104	166.6	76	4	526	339.8
060-069	266	1	38	23.3	518	5	97	96.4	382	7	183	162.9	114	2	175	340.1
070-079	140	0	0	23.8	258	1	39	102.0	164	3	183	158.3	54	1	185	340.5
080-457	570	2	35	26.3	1010	13	129	133.0	660	10	152	142.3	244	9	369	342.0
UNKNOWN	2020	5			1878	15			1078	20			134	5		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	18	16		15650	75	48		11938	92	77		3978	78	196	
NONE	2526	4	16	12.1	4654	20	43	48.3	5172	39	75	79.1	2086	43	206	196.4
000-009	3746	6	16	12.7	5422	29	53	47.9	3614	32	89	79.3	1100	24	218	197.0
010-019	852	1	12	15.0	1052	4	38	46.1	480	3	63	79.9	168	1	60	199.4
020-029	458	0	0	17.4	636	4	63	44.6	398	1	25	80.3	156	1	64	201.5
030-039	384	0	0	20.0	738	3	41	43.2	500	4	80	80.8	152	2	132	203.6
040-049	136	0	0	24.1	268	2	75	41.4	180	3	167	81.4	60	0	0	206.2
050-059	66	0	0	27.3	88	0	0	40.1	62	0	0	81.8	14	0	0	208.8
060-069	204	1	49	31.9	324	0	0	38.9	120	2	167	82.3	30	2	667	210.9
070-079	46	0	0	38.8	94	1	106	37.2	34	0	0	83.0	16	1	625	214.3
080-457	94	1	106	107.4	188	0	0	33.7	130	1	77	84.5	12	1	833	224.2
UNKNOWN	2422	5			2186	12			1248	7			184	3		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.002	0.016	0.005	-0.004	-0.003	0.001	0.000	0.001
SE(B)	0.006	0.006	0.002	0.007	0.003	0.006	0.003	0.009
A	-5.485	-6.020	-4.226	-4.629	-3.232	-4.129	-2.624	-3.197

TABLE 12-11-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	83	70	51	96	79	57	1095	1127	1083	67	55	48	61	49	44
NONE	244	247	259	8	7	5	33	28	19	533	523	495	20	17	13	38	33	26
UNDER 20	147	145	140	14	7	3	95	48	21	358	378	372	27	23	19	75	61	51
20	254	257	263	28	20	14	110	78	53	152	173	163	15	13	13	99	75	80
OVER 20	216	228	230	31	34	29	144	149	126	44	47	47	4	2	3	91	43	64
UNKNOWN	4	6	5	2	2	0				8	6	6	1	0	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	165	130	107	226	173	146	883	912	945	101	92	76	114	101	80
NONE	281	271	262	44	28	22	157	103	84	603	592	577	61	50	41	101	84	71
UNDER 20	116	116	115	24	19	19	207	164	165	180	208	236	26	28	24	144	135	102
20	171	189	182	45	37	29	263	196	159	71	80	98	7	8	8	99	100	82
OVER 20	155	165	167	49	43	34	316	261	204	23	29	31	4	5	3	174	172	97
UNKNOWN	8	9	8	3	3	3				6	3	3	3	1	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	128	165	159	368	331	270	437	613	739	87	107	116	199	175	157
NONE	165	237	257	53	67	59	321	283	230	348	471	546	74	87	87	213	185	159
UNDER 20	68	94	116	25	31	29	368	330	250	63	97	132	8	12	18	127	124	136
20	75	106	135	26	37	39	347	349	289	16	30	41	4	6	7	250	200	171
OVER 20	37	60	79	21	28	31	568	467	392	8	11	16	0	1	3	0	91	188
UNKNOWN	3	2	2	3	2	1				2	4	4	1	1	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.448	0.609	0.749
SE(B)	0.112	0.130	0.160
A	-3.047	-3.606	-4.247
WOMEN			
B	0.412	0.299	0.435
SE(B)	0.134	0.149	0.155
A	-3.097	-3.226	-3.472
AGE 45-54 AT EXAM			
MEN			
B	0.306	0.361	0.310
SE(B)	0.076	0.085	0.091
A	-1.669	-2.118	-2.256
WOMEN			
B	0.157	0.239	0.137
SE(B)	0.133	0.127	0.140
A	-2.148	-2.330	-2.515
AGE 55-64 AT EXAM			
MEN			
B	0.230	0.227	0.229
SE(B)	0.105	0.087	0.084
A	-0.792	-0.949	-1.256
WOMEN			
B	-0.339	-0.180	0.000
SE(B)	0.234	0.181	0.148
A	-1.321	-1.505	-1.685

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 12-11-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	20	22		12496	104	83		9158	165	180		2878	98	341	
NONE	2774	4	14	11.6	4650	20	43	52.5	4368	65	149	157.8	1666	49	294	273.1
UNDER 20	1392	2	14	16.6	1794	15	84	70.0	1528	30	196	176.0	564	18	319	350.3
20	2416	4	17	23.7	2972	36	121	93.3	1804	41	227	196.2	380	10	263	447.1
OVER 20	2288	9	39	33.9	3008	31	103	124.1	1408	26	185	218.6	260	20	769	567.5
UNKNOWN	52	1			72	2			50	3			8	1		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	18	16		15650	75	48		11938	92	77		3978	78	196	
NONE	5018	5	10	8.0	8884	29	33	35.3	8554	61	71	73.1	3176	65	205	199.8
UNDER 20	3494	4	11	14.7	3700	21	57	48.9	2068	20	97	82.7	556	7	126	179.4
20	1736	4	23	27.2	2164	16	74	67.7	876	7	80	93.4	166	4	241	160.9
OVER 20	628	4	64	50.0	840	6	71	93.6	396	4	101	105.6	62	1	161	144.3
UNKNOWN	58	1			62	3			44	0			18	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.358	0.615	0.292	0.329	0.113	0.125	0.265	-0.112
SE(B)	0.210	0.234	0.085	0.114	0.068	0.126	0.095	0.205
A	-6.064	-6.440	-4.547	-4.946	-3.424	-4.210	-2.851	-3.179

TABLE 12-11-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	83	70	51	96	79	57	1095	1127	1083	67	55	48	61	49	44
NONE	244	247	259	8	7	5	33	28	19	533	523	495	20	17	13	38	33	26
UNDER 20	147	145	140	14	7	3	95	48	21	358	378	372	27	23	19	75	61	51
20	254	257	263	28	20	14	110	78	53	152	173	163	15	13	13	99	75	80
OVER 20	216	228	230	31	34	29	144	149	126	44	47	47	4	2	3	91	43	64
UNKNOWN	4	6	5	2	2	0				8	6	6	1	0	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	165	130	107	226	173	146	883	912	945	101	92	76	114	101	80
NONE	281	271	262	44	28	22	157	103	84	603	592	577	61	50	41	101	84	71
UNDER 20	116	116	115	24	19	19	207	164	165	180	208	236	26	28	24	144	135	102
20	171	189	182	45	37	29	263	196	159	71	80	98	7	8	8	99	100	82
OVER 20	155	165	167	49	43	34	316	261	204	23	29	31	4	5	3	174	172	97
UNKNOWN	8	9	8	3	3	3				6	3	3	3	1	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	128	165	159	368	331	270	437	613	739	87	107	116	199	175	157
NONE	165	237	257	53	67	59	321	283	230	348	471	546	74	87	87	213	185	159
UNDER 20	68	94	116	25	31	29	368	330	250	63	97	132	8	12	18	127	124	136
20	75	106	135	26	37	39	347	349	289	16	30	41	4	6	7	250	200	171
OVER 20	37	60	79	21	28	31	568	467	392	8	11	16	0	1	3	0	91	188
UNKNOWN	3	2	2	3	2	1				2	4	4	1	1	1			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.448	0.609	0.749
SE(B)	0.112	0.130	0.160
A	-3.047	-3.606	-4.247
WOMEN			
B	0.412	0.299	0.435
SE(B)	0.134	0.149	0.155
A	-3.097	-3.226	-3.472
AGE 45-54 AT EXAM			
MEN			
B	0.306	0.361	0.310
SE(B)	0.076	0.085	0.091
A	-1.669	-2.118	-2.256
WOMEN			
B	0.157	0.239	0.137
SE(B)	0.133	0.127	0.140
A	-2.148	-2.330	-2.515
AGE 55-64 AT EXAM			
MEN			
B	0.230	0.227	0.229
SE(B)	0.105	0.087	0.084
A	-0.792	-0.949	-1.256
WOMEN			
B	-0.339	-0.180	0.000
SE(B)	0.234	0.181	0.148
A	-1.321	-1.505	-1.685

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 12-11-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	20	22		12496	104	83		9158	165	180		2878	98	341	
NONE	2774	4	14	11.6	4650	20	43	52.5	4368	65	149	157.8	1666	49	294	273.1
UNDER 20	1392	2	14	16.6	1794	15	84	70.0	1528	30	196	176.0	564	18	319	350.3
20	2416	4	17	23.7	2972	36	121	93.3	1804	41	227	196.2	380	10	263	447.1
OVER 20	2288	9	39	33.9	3008	31	103	124.1	1408	26	185	218.6	260	20	769	567.5
UNKNOWN	52	1			72	2			50	3			8	1		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	18	16		15650	75	48		11938	92	77		3978	78	196	
NONE	5018	5	10	8.0	8884	29	33	35.3	8554	61	71	73.1	3176	65	205	199.8
UNDER 20	3494	4	11	14.7	3700	21	57	48.9	2068	20	97	82.7	556	7	126	179.4
20	1736	4	23	27.2	2164	16	74	67.7	876	7	80	93.4	166	4	241	160.9
OVER 20	628	4	64	50.0	840	6	71	93.6	396	4	101	105.6	62	1	161	144.3
UNKNOWN	58	1			62	3			44	0			18	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.358	0.615	0.292	0.329	0.113	0.125	0.265	-0.112
SE(B)	0.210	0.234	0.085	0.114	0.068	0.126	0.095	0.205
A	-6.064	-6.440	-4.547	-4.946	-3.424	-4.210	-2.851	-3.179

TABLE 12-12-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH
CHARACTERISTIC: ALBUMIN IN URINE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	883	897	83	70	51	96	79	57	1095	1127	1083	67	55	48	61	49	44	
																			MEN
NO	823	869	878	72	66	48	87	76	55	992	1082	1033	57	50	46	57	46	45	B 0.697 0.353 0.401
POSSIBLE	2	0	3	0	0	1	0	****	333	7	1	5	1	0	0	143	0	0	SE(B) 0.250 0.544 0.449
DEFINITE	21	7	12	6	1	1	286	143	83	72	40	42	6	4	1	83	100	24	A -2.347 -2.499 -2.842
UNKNOWN	19	7	4	5	3	1				24	4	3	3	1	1				WOMEN
																			B 0.220 0.411 -0.365
																			SE(B) 0.218 0.274 0.522
																			A -2.793 -3.028 -3.068
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	731	750	734	165	130	107	226	173	146	883	912	945	101	92	76	114	101	80	
																			MEN
NO	697	738	724	155	126	104	222	171	144	805	873	899	82	89	71	102	102	79	B 0.064 0.587 0.469
POSSIBLE	1	0	0	0	0	0	0	****	****	7	4	6	1	0	1	143	0	167	SE(B) 0.241 0.326 0.349
DEFINITE	24	10	10	6	4	3	250	400	300	61	33	39	15	3	4	246	91	103	A -1.253 -1.580 -1.785
UNKNOWN	9	2	0	4	0	0				10	2	1	3	0	0				WOMEN
																			B 0.526 -0.097 0.172
																			SE(B) 0.159 0.312 0.261
																			A -2.178 -2.178 -2.453
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	348	499	589	128	165	159	368	331	270	437	613	739	87	107	116	199	175	157	
																			MEN
NO	326	480	563	112	151	144	344	315	256	405	588	706	78	97	103	193	165	146	B 0.917 1.027 0.672
POSSIBLE	1	1	6	0	0	5	0	0	833	0	1	2	0	0	1	****	0	500	SE(B) 0.317 0.313 0.235
DEFINITE	14	15	18	11	12	9	786	800	500	24	20	28	8	9	12	333	450	429	A -0.651 -0.781 -1.056
UNKNOWN	7	3	2	5	2	1				8	4	3	1	1	0				WOMEN
																			B 0.370 0.697 0.755
																			SE(B) 0.225 0.231 0.197
																			A -1.433 -1.623 -1.765

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 12-12-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH
CHARACTERISTIC: ALBUMIN IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	20	22		12496	104	83		9158	165	180		2878	98	341	
NO	8678	17	20	19.5	12204	96	79	78.4	8688	140	161	160.2	2676	85	318	317.2
POSSIBLE	20	0	0	51.0	42	0	0	169.1	82	1	122	313.7	26	1	385	474.8
DEFINITE	148	2	135	131.7	214	8	374	357.2	356	22	618	595.9	170	12	706	699.0
UNKNOWN	76	1			36	0			32	2			6	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	18	16		15650	75	48		11938	92	77		3978	78	196	
NO	10354	17	16	16.3	14938	69	46	45.9	11396	84	74	74.0	3776	68	180	181.1
POSSIBLE	88	0	0	18.9	132	0	0	62.4	120	2	167	111.0	38	2	526	321.8
DEFINITE	420	1	24	21.8	542	5	92	84.7	382	6	157	165.8	150	8	533	559.2
UNKNOWN	72	0			38	1			40	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.966	0.145	0.788	0.310	0.704	0.413	0.438	0.605
SE(B)	0.381	0.527	0.193	0.239	0.122	0.205	0.165	0.191
A	-5.541	-5.720	-4.140	-4.681	-3.408	-4.198	-2.692	-3.281

TABLE 12-13-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH
CHARACTERISTIC: SUGAR IN URINE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	883	897	83	70	51	96	79	57	1095	1127	1083	67	55	48	61	49	44	
																			MEN
NO	825	872	887	77	67	48	93	77	54	1059	1119	1075	61	54	47	58	48	44	8 -0.723******* 1.084
POSSIBLE	13	2	0	1	0	0	77	0	****	7	0	0	0	0	0	0	****	****	SE(8) 0.871 ****** 0.439
DEFINITE	8	2	6	0	0	2	0	0	333	5	4	5	3	0	0	600	0	0	A -2.271******* -2.861
UNKNOWN	19	7	4	5	3	1				24	4	3	3	1	1				WOMEN
																			B 1.340**********
																			SE(B) 0.414 ****** ******
																			A -2.806**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	731	750	734	165	130	107	226	173	146	883	912	945	101	92	76	114	101	80	
																			MEN
NO	690	723	710	149	123	100	216	170	141	853	900	931	94	85	69	110	94	74	8 0.657 0.448 0.547
POSSIBLE	20	11	11	5	2	3	250	182	273	11	1	2	1	1	2	91	1000	1000	SE(B) 0.253 0.269 0.280
DEFINITE	12	14	13	7	5	4	583	357	308	9	9	11	3	6	5	333	667	455	A -1.298 -1.588 -1.805
UNKNOWN	9	2	0	4	0	0				10	2	1	3	0	0				WOMEN
																			B 0.573 1.561 1.306
																			SE(B) 0.342 0.364 0.304
																			A -2.095 -2.256 -2.513
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	348	499	589	128	165	159	368	331	270	437	613	739	87	107	116	199	175	157	
																			MEN
NO	326	483	566	117	155	148	359	321	261	415	592	721	83	99	109	200	167	151	B 0.188 0.659 0.607
POSSIBLE	9	2	4	3	1	0	333	500	0	5	4	1	1	1	1	200	250	1000	SE(B) 0.359 0.311 0.242
DEFINITE	6	11	17	3	7	10	500	636	588	9	13	14	2	6	6	222	462	429	A -0.584 -0.749 -1.045
UNKNOWN	7	3	2	5	2	1				8	4	3	1	1	0				WOMEN
																			B 0.059 0.714 0.769
																			SE(B) 0.384 0.276 0.272
																			A -1.387 -1.606 -1.721

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 12-13-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH
CHARACTERISTIC: SUGAR IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	20	22		12496	104	83		9158	165	180		2878	98	341	
NO	8742	17	19	19.3	12148	102	84	84.1	8804	154	175	174.8	2744	87	317	317.5
POSSIBLE	44	0	0	73.3	108	1	93	68.0	54	1	185	227.2	14	1	714	539.7
DEFINITE	68	2	294	270.4	206	1	49	55.0	268	8	299	294.3	114	10	877	887.9
UNKNOWN	68	1			34	0			32	2			6	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	18	16		15650	75	48		11938	92	77		3978	78	196	
NO	10784	17	16	15.7	15432	67	43	43.5	11670	88	75	75.6	3884	74	191	190.0
POSSIBLE	16	0	0	49.7	46	1	217	143.8	50	1	200	115.7	12	0	0	329.4
DEFINITE	62	1	161	154.9	136	6	441	453.6	182	3	165	176.4	68	4	588	559.2
UNKNOWN	72	0			36	1			36	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	1.347	1.158	-0.215	1.215	0.273	0.434	0.579	0.580
SE(B)	0.392	0.528	0.442	0.217	0.185	0.283	0.181	0.275
A	-5.555	-5.759	-4.069	-4.735	-3.318	-4.177	-2.691	-3.231

TABLE 12-14-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	83	70	51	96	79	57	1095	1127	1083	67	55	48	61	49	44
NO	771	781	816	67	54	40	87	69	49	953	1017	1013	56	45	38	59	44	38
POSSIBLE	26	35	43	2	2	2	77	57	47	56	39	36	5	3	4	89	77	111
DEFINITE	64	65	37	13	14	9	203	215	243	82	70	33	6	6	5	73	86	152
UNKNOWN	4	2	1	1	0	0				4	1	1	0	1	1			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	165	130	107	226	173	146	883	912	945	101	92	76	114	101	80
NO	579	650	647	127	104	86	219	160	133	631	688	763	56	61	54	89	89	71
POSSIBLE	24	41	42	7	7	5	292	171	119	61	79	100	8	12	7	131	152	70
DEFINITE	124	59	45	29	19	16	234	322	356	185	145	82	36	19	15	195	131	183
UNKNOWN	4	0	0	2	0	0				6	0	0	1	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	128	165	159	368	331	270	437	613	739	87	107	116	199	175	157
NO	249	379	475	81	112	108	325	296	227	253	366	471	39	47	52	154	128	110
POSSIBLE	17	45	51	10	18	20	588	400	392	34	80	116	7	14	19	206	175	164
DEFINITE	81	75	63	37	35	31	457	467	492	146	167	152	40	46	45	274	275	296
UNKNOWN	1	0	0	0	0	0				4	0	0	1	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.464	0.614	0.837
SE(B)	0.168	0.167	0.209
A	-2.363	-2.621	-2.998
WOMEN			
B	0.161	0.373	0.813
SE(B)	0.205	0.216	0.236
A	-2.763	-3.067	-3.231
AGE 45-54 AT EXAM			
MEN			
B	0.054	0.421	0.560
SE(B)	0.115	0.145	0.162
A	-1.262	-1.670	-1.901
WOMEN			
B	0.454	0.250	0.480
SE(B)	0.116	0.134	0.159
A	-2.330	-2.303	-2.611
AGE 55-64 AT EXAM			
MEN			
B	0.303	0.377	0.619
SE(B)	0.129	0.125	0.131
A	-0.701	-0.863	-1.212
WOMEN			
B	0.364	0.472	0.605
SE(B)	0.127	0.117	0.116
A	-1.703	-1.929	-2.109

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 12-14-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	20	22		12496	104	83		9158	165	180		2878	98	341	
NO	8096	13	16	16.3	10596	73	69	67.8	6976	97	139	136.4	1846	48	260	251.0
POSSIBLE	372	2	54	44.3	930	9	97	121.8	974	19	195	232.6	448	14	313	387.1
DEFINITE	434	5	115	119.3	960	22	229	217.0	1206	49	406	391.1	584	36	616	587.8
UNKNOWN	20	0			10	0			2	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	18	16		15650	75	48		11938	92	77		3978	78	196	
NO	10074	15	15	14.9	12700	51	40	39.0	7502	37	49	49.9	1882	22	117	114.8
POSSIBLE	370	1	27	25.3	1380	6	43	64.4	1968	18	91	87.3	726	13	179	189.9
DEFINITE	476	2	42	42.7	1564	18	115	105.9	2460	37	150	152.1	1370	43	314	311.0
UNKNOWN	14	0			6	0			8	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	1.006	0.529	0.597	0.506	0.554	0.568	0.462	0.519
SE(B)	0.259	0.362	0.124	0.140	0.091	0.117	0.118	0.133
A	-5.724	-5.811	-4.287	-4.845	-3.574	-4.598	-2.940	-3.751

TABLE 12-15-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	83	70	51	96	79	57	1095	1127	1083	67	55	48	61	49	44
NO	840	848	865	78	63	45	93	74	52	1085	1108	1064	65	54	46	60	49	43
POSSIBLE	16	27	27	2	4	3	125	148	111	7	15	15	0	0	1	0	0	67
DEFINITE	9	8	5	3	3	3	333	375	600	3	4	4	2	1	1	667	250	250
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	165	130	107	226	173	146	883	912	945	101	92	76	114	101	80
NO	696	700	682	141	106	86	203	151	126	851	867	908	90	80	68	106	92	75
POSSIBLE	19	25	30	10	7	10	526	280	333	16	31	25	2	4	2	125	129	80
DEFINITE	16	25	22	14	17	11	875	680	500	16	14	12	9	8	6	563	571	500
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	128	165	159	368	331	270	437	613	739	87	107	116	199	175	157
NO	313	437	519	104	126	119	332	288	229	419	552	654	77	83	86	184	150	131
POSSIBLE	15	31	31	7	16	10	467	516	323	8	35	46	3	10	11	375	286	239
DEFINITE	20	31	39	17	23	30	850	742	769	10	26	39	7	14	19	700	538	487
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.702	0.933	1.340
SE(B)	0.329	0.314	0.356
A	-2.284	-2.527	-2.922
WOMEN			
B	1.283	0.453	0.848
SE(B)	0.505	0.626	0.522
A	-2.764	-2.982	-3.102
AGE 45-54 AT EXAM			
MEN			
B	1.588	1.156	1.025
SE(B)	0.291	0.197	0.201
A	-1.373	-1.734	-1.927
WOMEN			
B	1.070	1.080	1.047
SE(B)	0.238	0.239	0.268
A	-2.148	-2.307	-2.535
AGE 55-64 AT EXAM			
MEN			
B	1.064	0.977	1.077
SE(B)	0.259	0.190	0.171
A	-0.711	-0.904	-1.236
WOMEN			
B	1.136	0.918	0.889
SE(B)	0.317	0.188	0.160
A	-1.493	-1.737	-1.897

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 12-15-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	20	22		12496	104	83		9158	165	180		2878	98	341	
NO	8596	18	21	20.0	11682	80	68	66.9	8084	108	134	133.2	2376	63	265	262.7
POSSIBLE	258	0	0	60.4	542	7	129	197.9	590	19	322	331.9	244	11	451	499.1
DEFINITE	68	2	294	179.4	272	17	625	556.5	484	38	785	779.1	258	24	930	907.4
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	18	16		15650	75	48		11938	92	77		3978	78	196	
NO	10742	15	14	14.0	15120	69	46	44.6	10786	67	62	63.1	3360	45	134	131.3
POSSIBLE	136	1	74	72.5	384	1	26	104.3	698	12	172	141.2	348	10	287	338.7
DEFINITE	56	2	357	358.4	146	5	342	239.6	454	13	286	309.9	270	23	852	818.8
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	1.113	1.658	1.112	0.860	0.954	0.821	0.693	0.991
SE(B)	0.427	0.373	0.141	0.252	0.099	0.144	0.129	0.137
A	-5.516	-5.877	-4.301	-4.710	-3.598	-4.360	-2.892	-3.613

TABLE 12-16-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	83	70	51	96	79	57	1095	1127	1083	67	55	48	61	49	44
NO	845	862	871	81	67	51	96	78	59	1077	1111	1070	64	54	47	59	49	44
YES	20	21	26	2	3	0	100	143	0	18	16	13	3	1	1	167	63	77
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	165	130	107	226	173	146	883	912	945	101	92	76	114	101	80
NO	704	729	707	150	123	100	213	169	141	861	875	912	92	85	70	107	97	77
YES	27	21	27	15	7	7	556	333	259	22	37	33	9	7	6	409	189	182
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	128	165	159	368	331	270	437	613	739	87	107	116	199	175	157
NO	336	475	553	122	151	142	363	318	257	423	579	688	81	96	103	191	166	150
YES	12	24	36	6	14	17	500	583	472	14	34	51	6	11	13	429	324	255
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.047	0.682	*******
SE(B)	0.754	0.636	******
A	-2.244	-2.474	*******
WOMEN			
B	1.152	0.266	0.595
SE(B)	0.645	1.042	1.051
A	-2.762	-2.974	-3.080
AGE 45-54 AT EXAM			
MEN			
B	1.530	0.902	0.754
SE(B)	0.398	0.473	0.452
A	-1.307	-1.595	-1.803
WOMEN			
B	1.756	0.774	0.983
SE(B)	0.447	0.435	0.468
A	-2.123	-2.229	-2.487
AGE 55-64 AT EXAM			
MEN			
B	0.562	1.100	0.952
SE(B)	0.588	0.426	0.348
A	-0.562	-0.763	-1.063
WOMEN			
B	1.153	0.878	0.664
SE(B)	0.554	0.383	0.339
A	-1.440	-1.616	-1.737

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 12-16-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	20	22		12496	104	83		9158	165	180		2878	98	341	
NO	8684	20	23	23.0	11916	96	81	80.6	8546	140	164	163.8	2602	86	331	330.5
YES	238	0	0	0.0	580	8	138	137.9	612	25	408	408.5	276	12	435	434.8
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	18	16		15650	75	48		11938	92	77		3978	78	196	
NO	10738	18	17	16.8	15106	67	44	44.4	11204	83	74	74.1	3620	67	185	185.1
YES	196	0	0	0.0	544	8	147	147.1	734	9	123	122.6	358	11	307	307.3
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.549	1.220	0.966	0.514	0.297	0.533
SE(B)	******	******	0.373	0.379	0.226	0.355	0.322	0.335
A	*******	*******	-4.112	-4.716	-3.385	-4.197	-2.648	-3.259

TABLE 12-17-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH
CHARACTERISTIC: DIABETES MELLITUS

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	883	897	83	70	51	96	79	57	1095	1127	1083	67	55	48	61	49	44	
																			MEN
NO	853	873	887	83	69	49	97	79	55	1087	1121	1077	63	54	47	58	48	44	B******* 0.258 1.453
YES	12	10	10	0	1	2	0	100	200	8	6	6	4	1	1	500	167	167	SE(B)****** 1.062 0.804
																			A******* -2.455 -2.839
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 2.788 1.374 1.478
																			SE(B) 0.719 1.104 1.106
																			A -2.788 -2.984 -3.087
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	731	750	734	165	130	107	226	173	146	883	912	945	101	92	76	114	101	80	
																			MEN
NO	708	724	711	153	119	101	216	164	142	861	897	922	93	84	66	108	94	72	B 1.376 1.316 0.757
YES	23	26	23	12	11	6	522	423	261	22	15	23	8	8	10	364	533	435	SE(B) 0.427 0.409 0.487
																			A -1.289 -1.626 -1.798
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 1.552 2.403 2.300
																			SE(B) 0.457 0.530 0.440
																			A -2.111 -2.270 -2.563
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	348	499	589	128	165	159	368	331	270	437	613	739	87	107	116	199	175	157	
																			MEN
NO	333	479	563	121	156	146	363	326	259	424	586	708	81	96	105	191	164	148	B 0.427 0.527 1.049
YES	15	20	26	7	9	13	467	450	500	13	27	31	6	11	11	462	407	355	SE(B) 0.530 0.460 0.404
																			A -0.561 -0.728 -1.049
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 1.289 1.255 1.150
																			SE(B) 0.570 0.407 0.390
																			A -1.443 -1.630 -1.748

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 12-17-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH
CHARACTERISTIC: DIABETES MELLITUS

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	20	22		12496	104	83		9158	165	180		2878	98	341	
NO	8830	19	22	21.5	12130	99	82	81.6	8686	149	172	171.5	2676	90	336	336.3
YES	92	1	109	108.7	366	5	137	136.6	472	16	339	339.0	202	8	396	396.0
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	18	16		15650	75	48		11938	92	77		3978	78	196	
NO	10860	17	16	15.7	15364	70	46	45.6	11468	85	74	74.1	3718	66	178	177.5
YES	74	1	135	135.1	286	5	175	174.8	470	7	149	148.9	260	12	462	461.5
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	1.637	2.180	0.526	1.371	0.716	0.713	0.176	1.016
SE(B)	1.037	1.042	0.465	0.471	0.272	0.399	0.384	0.328
A	-5.444	-5.763	-4.099	-4.689	-3.337	-4.197	-2.629	-3.302

TA8LE 12-18-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, 8Y SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH
CHARACTERISTIC: HYPERTENSICN

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUM8ER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	883	897	83	70	51	96	79	57	1095	1127	1083	67	55	48	61	49	44	
																			MEN
NO	381	508	601	32	34	24	84	67	40	709	874	871	36	37	31	51	42	36	8 0.286 0.392 0.750
8ORDER	355	266	212	32	20	13	90	75	61	291	187	169	22	12	11	76	64	65	SE(8) 0.158 0.164 0.184
DEFINITE	129	109	84	19	16	14	147	147	167	95	66	43	9	6	6	95	91	140	A -2.463 -2.700 -3.249
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WCMEN
																			B 0.359 0.416 0.712
																			SE(8) 0.176 0.205 0.218
																			A -2.913 -3.116 -3.311
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	731	750	734	165	130	107	226	173	146	883	912	945	101	92	76	114	101	80	
																			MEN
NO	289	374	399	36	44	44	125	118	110	310	419	514	27	35	32	87	84	62	B 0.695 0.523 0.530
BORDER	270	243	221	66	50	32	244	206	145	363	305	263	39	29	23	107	95	87	SE(B) 0.117 0.123 0.134
DEFINITE	172	133	114	63	36	31	366	271	272	210	138	168	35	28	21	167	149	125	A -1.895 -1.969 -2.148
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 0.375 0.317 0.382
																			SE(B) 0.140 0.138 0.147
																			A -2.411 -2.449 -2.716
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	348	499	589	128	165	159	368	331	270	437	613	739	87	107	116	199	175	157	
																			MEN
NO	124	219	300	31	58	56	250	265	187	102	161	257	9	13	25	88	81	97	B 0.703 0.518 0.628
BORDER	132	168	177	44	49	53	333	292	299	178	233	253	36	38	34	202	163	134	SE(B) 0.150 0.122 0.119
DEFINITE	92	112	112	53	58	50	576	518	446	157	219	229	42	56	57	268	256	249	A -1.218 -1.138 -1.474
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 0.582 0.654 0.584
																			SE(B) 0.170 0.149 0.131
																			A -2.106 -2.353 -2.319

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 12-18-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH
CHARACTERISTIC: HYPERTENSION

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	20	22		12496	104	83		9158	165	180		2878	98	341	
NO	5280	7	13	12.1	6458	43	67	62.1	4128	56	136	128.9	1138	32	281	267.8
BORDER	2624	6	23	27.6	3838	29	76	90.7	2962	50	169	187.7	1064	34	320	348.3
DEFINITE	1018	7	69	62.7	2200	32	145	132.2	2068	59	285	271.8	676	32	473	450.8
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	18	16		15650	75	48		11938	92	77		3978	78	196	
NO	8338	10	12	12.1	8664	35	40	38.1	4182	31	74	75.2	902	10	111	114.6
BORDER	1962	5	25	24.4	4536	20	44	52.9	4294	34	79	77.2	1560	28	179	175.2
DEFINITE	634	3	47	49.0	2450	20	82	73.5	3462	27	78	79.2	1516	40	264	266.1
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.828	0.702	0.385	0.332	0.388	0.027	0.280	0.437
SE(B)	0.281	0.310	0.122	0.145	0.098	0.132	0.133	0.163
A	-6.023	-6.020	-4.376	-4.870	-3.632	-4.182	-2.872	-3.753

TABLE 12-19-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH
CHARACTERISTIC: GLUCOSE INTOLERANCE

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	83	70	51	96	79	57	1095	1127	1083	67	55	48	61	49	44
NO	826	864	878	80	67	49	97	78	56	1072	1111	1064	62	52	46	58	47	43
YES	39	19	19	3	3	2	77	158	105	23	16	19	5	3	2	217	188	105
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	165	130	107	226	173	146	883	912	945	101	92	76	114	101	80
NO	681	699	691	147	115	96	216	165	139	842	886	910	91	81	63	108	91	69
YES	50	51	43	18	15	11	360	294	256	41	26	35	10	11	13	244	423	371
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	128	165	159	368	331	270	437	613	739	87	107	116	199	175	157
NO	321	467	543	117	152	142	364	325	262	405	571	687	77	91	99	190	159	144
YES	27	32	46	11	13	17	407	406	370	32	42	52	10	16	17	313	381	327
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	-0.252	0.802	0.688
SE(B)	0.612	0.642	0.762
A	-2.233	-2.476	-2.828
WOMEN			
B	1.510	1.547	0.957
SE(B)	0.522	0.656	0.763
A	-2.791	-3.014	-3.097
AGE 45-54 AT EXAM			
MEN			
B	0.715	0.749	0.756
SE(B)	0.309	0.324	0.366
A	-1.290	-1.625	-1.824
WOMEN			
B	0.979	1.986	2.072
SE(B)	0.380	0.414	0.373
A	-2.111	-2.296	-2.599
AGE 55-64 AT EXAM			
MEN			
B	0.181	0.349	0.504
SE(B)	0.408	0.373	0.321
A	-0.556	-0.729	-1.038
WOMEN			
B	0.661	1.177	1.059
SE(B)	0.402	0.338	0.315
A	-1.449	-1.663	-1.782

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 12-19-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH
CHARACTERISTIC: GLUCOSE INTOLERANCE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	20	22		12496	104	83		9158	165	180		2878	98	341	
NO	8658	18	21	20.8	11788	97	82	82.3	8410	144	171	171.2	2582	83	321	321.5
YES	264	2	76	75.8	708	7	99	98.9	748	21	281	280.7	296	15	507	506.8
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	18	16		15650	75	48		11938	92	77		3978	78	196	
NO	10756	17	16	15.8	15144	65	43	42.9	11182	84	75	75.1	3572	64	179	179.2
YES	178	1	56	56.2	506	10	198	197.6	756	8	106	105.8	406	14	345	344.8
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	1.304	1.276	0.187	1.559	0.517	0.349	0.496	0.690
SE(B)	0.751	1.035	0.395	0.346	0.240	0.374	0.295	0.305
A	-5.479	-5.754	-4.090	-4.749	-3.339	-4.183	-2.678	-3.292

TA8LE 13-1-A

INCIOENCE OF EVENT AFTER SPECIFIED EXAM*, 8Y SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUOY, 16-YEAR FOLLOW-UP
EVENT: OEATH FROM CORONARY HEART OISEASE
CHARACTERISTIC: 8LOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIOENCE			RATE PER 1000			WOMEN AT RISK			(NCIOENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUM8ER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	883	897	28	22	16	32	25	18	1095	1127	1083	5	5	5	5	4	5	
074-109	35	72	92	1	1	0	29	14	0	102	204	248	1	1	1	10	5	4	MEN
110-119	116	163	192	2	2	4	17	12	21	234	311	312	0	0	0	0	0	0	8 0.017 0.019 0.021
120-129	185	219	247	6	6	3	32	27	12	280	268	263	2	0	1	7	0	4	SE(8) 0.010 0.011 0.011
130-139	237	207	186	6	5	3	25	24	16	212	180	138	1	1	0	5	6	0	A -5.696 -6.180 -6.763
140-149	156	127	101	4	3	3	26	24	30	120	83	67	0	1	1	0	12	15	
150-159	56	49	38	5	2	1	89	41	26	68	43	28	1	2	1	15	47	36	WOMEN
160-169	41	22	21	1	0	0	24	0	0	46	17	14	0	0	0	0	0	0	8 0.001 0.027 0.042
170-179	24	13	10	2	3	2	83	231	200	18	10	6	0	0	0	0	0	0	SE(8) 0.024 0.015 0.014
180-189	7	6	8	1	0	0	143	0	0	7	8	2	0	0	0	0	0	0	A -5.498 -8.911-10.793
190-300	8	5	2	0	0	0	0	0	0	8	3	5	0	0	1	0	0	200	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	731	750	734	72	56	48	98	75	65	883	912	945	18	14	13	20	15	14	
074-109	23	49	53	0	1	0	0	20	0	23	50	104	0	0	1	0	0	10	MEN
110-119	86	122	138	3	5	8	35	41	58	66	129	165	0	1	0	0	8	0	8 0.027 0.022 0.023
120-129	149	164	166	9	8	7	60	49	42	142	156	176	0	1	1	0	6	6	SE(8) 0.005 0.006 0.007
130-139	141	167	146	10	14	8	71	84	55	177	182	173	2	2	1	11	11	6	A -6.135 -5.527 -5.723
140-149	127	111	109	19	13	12	150	117	110	134	129	104	4	2	2	30	16	19	
150-159	77	61	54	4	5	5	52	82	93	110	96	85	3	4	4	27	42	47	WOMEN
160-169	54	33	32	9	2	2	167	61	63	79	64	51	4	2	1	51	31	20	8 0.013 0.010 0.021
170-179	31	15	18	5	1	2	161	67	111	56	32	40	3	1	2	54	31	50	SE(8) 0.007 0.008 0.008
180-189	18	12	7	3	2	2	167	167	286	42	34	21	1	1	0	24	29	0	A -5.766 -5.637 -7.214
190-300	25	16	11	10	5	2	400	313	182	54	40	26	1	0	1	19	0	38	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	348	499	589	45	63	60	129	126	102	437	613	739	26	32	28	59	52	38	
074-109	10	25	48	2	2	1	200	80	21	13	17	28	0	0	0	0	0	0	MEN
110-119	24	54	83	1	1	3	42	19	36	17	38	56	0	0	0	0	0	0	8 0.017 0.018 0.018
120-129	54	82	110	3	11	11	56	134	100	41	64	111	2	3	2	49	47	18	SE(8) 0.005 0.005 0.005
130-139	66	106	113	5	6	11	76	57	97	67	86	127	2	4	2	30	47	16	A -4.399 -4.573 -4.698
140-149	60	71	66	7	10	5	117	141	76	61	82	93	0	1	0	0	12	0	
150-159	52	53	64	5	8	10	96	151	156	66	104	90	6	3	6	91	29	67	WOMEN
160-169	26	41	39	10	9	6	385	220	154	44	70	65	1	7	5	23	100	77	8 0.015 0.020 0.022
170-179	23	20	17	6	3	2	261	150	118	45	50	60	7	3	2	156	60	33	SE(8) 0.006 0.006 0.005
180-189	11	15	17	1	4	2	91	267	118	26	35	45	4	3	2	154	86	44	A -5.218 -6.039 -6.702
190-300	22	32	32	5	9	9	227	281	281	57	67	64	4	8	9	70	119	141	
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				

* PERIOO OF O8SERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, ANO 12 YEARS AFTER EXAM 3.

TABLE 13-1-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	6	7		12496	38	30		9158	73	80		2878	32	111	
074-109	720	0	0	18.4	766	2	26	15.9	528	2	38	42.4	142	1	70	58.4
110-119	1708	3	18	10.8	2092	1	5	19.5	1124	2	18	50.0	246	1	41	69.0
120-129	2300	3	13	6.8	2698	8	30	23.2	1646	11	67	57.7	402	4	100	77.8
130-139	2024	0	0	4.2	2696	9	33	28.0	1740	16	92	67.5	542	4	74	90.1
140-149	1162	0	0	2.6	1790	4	22	33.6	1374	11	80	78.3	474	7	148	102.6
150-159	518	0	0	1.6	1110	4	36	40.5	976	6	61	91.3	362	0	0	116.8
160-169	248	0	0	1.0	606	4	66	48.4	656	9	137	105.4	248	3	121	132.9
170-179	138	0	0	0.6	334	3	90	58.0	430	4	93	122.3	142	4	282	152.1
180-189	64	0	0	0.4	202	0	0	70.7	274	3	109	141.0	126	4	317	174.9
190-300	40	0	0	0.2	202	3	149	105.1	410	9	220	200.8	194	4	206	243.1
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	2	2		15650	5	3		11938	23	19		3978	20	50	
074-109	1992	0	0	******	1390	1	7	3.9	444	0	0	10.7	72	0	0	15.8
110-119	2884	0	0	******	2668	0	0	3.6	1060	1	9	12.2	212	1	47	19.7
120-129	2638	1	4	******	3066	1	3	3.4	1586	1	6	13.8	324	1	31	23.6
130-139	1730	0	0	******	3042	1	3	3.2	1956	2	10	15.5	540	1	19	29.1
140-149	864	0	0	******	1954	2	10	3.0	1742	2	11	17.4	628	2	32	34.9
150-159	436	0	0	******	1384	0	0	2.8	1592	7	44	19.6	580	0	0	42.2
160-169	196	0	0	******	796	0	0	2.6	1158	5	43	21.9	498	3	60	50.7
170-179	94	0	0	******	526	0	0	2.4	848	1	12	24.7	390	4	103	61.5
180-189	56	0	0	******	394	0	0	2.3	642	2	31	27.7	288	3	104	74.5
190-300	44	1	227	******	430	0	0	1.9	910	2	22	38.3	446	5	112	121.7
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	-0.049	*******	0.019	-0.007	0.015	0.012	0.014	0.019
SE(B)	0.031	******	0.007	0.020	0.004	0.007	0.006	0.007
A	-0.524	*******	-7.699	-6.468	-6.359	-7.360	-5.850	-7.752

TABLE 13-2-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	28	22	16	32	25	18	1095	1127	1083	5	5	5	5	4	5
020-069	44	80	94	1	1	0	23	13	0	104	205	230	0	1	1	0	5	4
070-074	110	137	153	1	2	0	9	15	0	198	252	263	1	1	0	5	4	0
075-079	71	93	117	1	3	3	14	32	26	136	154	188	0	0	1	0	0	5
080-084	195	210	186	5	4	3	26	19	16	276	248	179	1	0	0	4	0	0
085-089	113	107	130	6	6	2	53	56	15	102	107	97	1	0	1	10	0	10
090-094	156	115	104	2	1	3	13	9	29	144	76	65	1	3	1	7	39	15
095-099	62	65	45	3	1	1	48	15	22	51	35	29	1	0	0	20	0	0
100-104	63	34	36	6	2	2	95	59	56	50	27	19	0	0	0	0	0	0
105-109	11	21	17	1	1	2	91	48	118	11	13	5	0	0	1	0	0	200
110-160	40	21	15	2	1	0	50	48	0	23	10	8	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	72	56	48	98	75	65	883	912	945	18	14	13	20	15	14
020-069	21	59	66	1	3	2	48	51	30	21	63	99	0	0	1	0	0	10
070-074	70	77	97	2	4	5	29	52	52	76	125	132	0	1	0	0	8	0
075-079	59	93	95	4	2	5	68	22	53	82	103	136	0	3	0	0	29	0
080-084	176	146	146	13	7	9	74	48	62	192	187	205	1	1	3	5	5	15
085-089	76	103	101	6	11	4	79	107	40	100	113	123	1	0	1	10	0	8
090-094	131	110	89	14	9	7	107	82	79	162	130	94	7	3	5	43	23	53
095-099	57	60	61	9	8	6	158	133	98	71	55	59	2	2	2	28	36	34
100-104	72	56	33	9	7	3	125	125	91	77	53	40	1	2	0	13	38	0
105-109	23	17	18	3	1	5	130	59	278	27	26	17	2	0	0	74	0	0
110-160	46	29	28	11	4	2	239	138	71	75	57	40	4	2	1	53	35	25
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	45	63	60	129	126	102	437	613	739	26	32	28	59	52	38
020-069	19	42	60	2	4	1	105	95	17	13	31	52	0	1	1	0	32	19
070-074	34	66	95	5	7	12	147	106	126	36	68	82	1	1	3	28	15	37
075-079	40	66	67	1	3	3	25	45	45	27	56	79	1	2	3	37	36	38
080-084	74	93	121	7	11	11	95	118	91	74	110	149	0	2	3	0	18	20
085-089	37	45	68	4	3	8	108	67	118	55	73	103	4	2	4	73	27	39
090-094	56	74	65	11	9	6	196	122	92	82	91	103	8	6	3	98	66	29
095-099	23	31	40	2	5	4	87	161	100	35	60	60	4	5	5	114	83	83
100-104	28	36	20	5	9	4	179	250	200	51	51	41	4	5	2	78	98	49
105-109	7	10	19	1	5	2	143	500	105	12	23	26	1	2	2	83	87	77
110-160	30	36	34	7	7	9	233	194	265	52	50	44	3	6	2	58	120	45
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.036	0.023	0.051
SE(B)	0.014	0.018	0.020
A	-6.605	-5.634	-8.380
WOMEN			
B	0.023	0.021	0.051
SE(B)	0.034	0.036	0.027
A	-7.336	-7.051	-9.450
AGE 45-54 AT EXAM			
MEN			
B	0.037	0.034	0.032
SE(B)	0.009	0.011	0.012
A	-5.556	-5.450	-5.409
WOMEN			
B	0.043	0.024	0.029
SE(B)	0.014	0.017	0.018
A	-7.872	-6.283	-6.802
AGE 55-64 AT EXAM			
MEN			
B	0.025	0.025	0.024
SE(B)	0.011	0.009	0.009
A	-4.104	-4.127	-4.251
WOMEN			
B	0.019	0.035	0.020
SE(B)	0.012	0.011	0.013
A	-4.546	-6.122	-4.970

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 13-2-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	6	7		12496	38	30		9158	73	80		2878	32	111	
020-069	722	0	0	12.5	770	2	26	12.9	724	4	55	54.5	342	6	175	80.4
070-074	1294	1	8	9.6	1526	3	20	16.7	1240	11	89	61.4	478	4	84	91.6
075-079	968	2	21	7.9	1274	3	24	20.3	950	2	21	67.2	310	2	65	99.3
080-084	2222	2	9	6.6	2972	6	20	24.1	2012	16	80	73.1	602	3	50	106.7
085-089	1212	0	0	5.5	1692	6	35	29.1	1008	7	69	79.9	306	2	65	115.8
090-094	1162	1	9	4.6	1778	4	22	34.9	1294	12	93	86.9	368	6	163	124.4
095-099	544	0	0	3.8	844	4	47	41.8	604	4	66	94.7	134	1	75	133.8
100-104	454	0	0	3.2	888	4	45	49.2	646	10	155	102.6	170	4	235	143.5
105-109	132	0	0	2.7	286	0	0	59.9	190	1	53	112.6	36	1	278	158.8
110-160	212	0	0	2.0	466	6	129	85.6	490	6	122	134.6	132	3	227	185.6
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	2	2		15650	5	3		11938	23	19		3978	20	50	
020-069	1880	1	5	******	1416	1	7	5.5	766	0	0	10.7	310	1	32	27.6
070-074	2356	0	0	******	2432	0	0	4.3	1416	2	14	12.9	470	2	43	33.3
075-079	1544	0	0	******	1768	1	6	3.7	1076	4	37	14.6	344	2	58	38.0
080-084	2390	0	0	******	3618	2	6	3.2	2552	1	4	16.3	894	3	34	42.6
085-089	1082	0	0	******	1878	0	0	2.7	1476	2	14	18.4	388	1	26	48.7
090-094	850	0	0	******	1996	1	5	2.3	1890	8	42	20.7	654	3	46	54.8
095-099	338	1	30	******	782	0	0	2.0	800	1	13	23.3	296	3	101	61.9
100-104	278	0	0	******	810	0	0	1.7	920	1	11	26.1	314	0	0	69.6
105-109	98	0	0	******	274	0	0	1.4	298	0	0	29.6	68	1	147	79.3
110-160	118	0	0	******	676	0	0	1.0	744	4	54	38.4	240	4	167	101.7
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	-0.037	*******	0.037	-0.031	0.018	0.024	0.016	0.025
SE(B)	0.038	******	0.012	0.039	0.008	0.014	0.012	0.015
A	-3.652	*******	-8.324	-4.802	-5.644	-7.662	-5.105	-6.799

TABLE 13-3-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	28	22	16	32	25	18	1095	1127	1083	5	5	5	5	4	5
096-189	140	173	174	2	3	1	14	17	6	213	334	331	1	1	1	5	3	3
190-204	94	100	116	5	1	1	53	10	9	133	206	187	1	0	1	8	0	5
205-219	58	137	141	0	1	1	0	7	7	85	153	155	0	0	0	0	0	0
220-234	108	144	133	4	1	1	37	7	8	98	135	131	0	0	0	0	0	0
235-249	50	95	101	0	1	2	0	11	20	50	90	96	0	1	1	0	11	10
250-264	53	72	76	4	5	2	75	69	26	46	56	57	1	0	0	22	0	0
265-279	29	54	48	3	2	3	103	37	63	23	55	36	1	1	1	43	18	28
280-294	18	32	37	1	3	0	56	94	0	16	28	29	1	1	1	63	36	34
295-309	12	20	23	0	2	2	0	100	87	6	17	25	0	0	0	0	0	0
310-696	18	29	34	2	2	3	111	69	88	3	15	14	0	0	0	0	0	0
UNKNOWN	285	27	14	7	1	0				422	38	22	0	1	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	72	56	48	98	75	65	883	912	945	18	14	13	20	15	14
096-189	77	97	91	6	2	1	78	21	11	74	102	109	0	2	0	0	20	0
190-204	59	95	84	5	5	7	85	53	83	42	91	97	0	1	1	0	11	10
205-219	51	111	130	8	9	9	157	81	69	55	118	118	0	0	0	0	0	0
220-234	68	129	118	4	10	7	59	78	59	85	145	139	2	1	1	24	7	7
235-249	50	108	91	4	9	5	80	83	55	42	111	133	0	0	0	0	0	0
250-264	39	72	86	1	6	6	26	83	70	36	82	98	0	1	2	0	12	20
265-279	27	46	50	3	6	6	111	130	120	41	76	77	1	0	0	24	0	0
280-294	27	39	32	4	2	2	148	51	63	31	58	56	0	2	2	0	34	36
295-309	14	21	18	1	1	3	71	48	167	24	33	36	0	1	2	0	30	56
310-696	11	19	22	2	2	1	182	105	45	38	66	69	3	6	5	79	91	72
UNKNOWN	308	13	12	34	4	1				415	30	13	12	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	45	63	60	129	126	102	437	613	739	26	32	28	59	52	38
096-189	52	90	106	6	12	12	115	133	113	16	31	39	1	3	3	63	97	77
190-204	32	64	57	0	5	6	0	78	105	20	42	49	0	0	2	0	0	41
205-219	31	73	96	7	7	7	226	96	73	22	49	65	1	2	1	45	41	15
220-234	41	61	70	5	4	4	122	66	57	47	98	97	1	3	2	21	31	21
235-249	30	51	84	4	10	14	133	196	167	28	69	88	1	3	0	36	43	0
250-264	18	60	75	4	10	6	222	167	80	40	75	104	4	0	6	100	0	58
265-279	15	34	31	1	6	3	67	176	97	29	64	90	1	1	4	34	16	44
280-294	11	24	31	5	5	3	455	208	97	20	48	55	2	4	1	100	83	18
295-309	9	21	21	0	3	3	0	143	143	19	38	56	2	7	3	105	184	54
310-696	7	14	16	1	1	2	143	71	125	28	78	84	3	8	5	107	103	60
UNKNOWN	102	7	2	12	0	0				168	21	12	10	1	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.010	0.013	0.015
SE(B)	0.004	0.003	0.004
A	-5.533	-6.738	-7.760
WOMEN			
B	0.018	******	0.012
SE(B)	0.011	******	0.009
A	-8.897	******	-7.931
AGE 45-54 AT EXAM			
MEN			
B	0.003	0.006	0.007
SE(B)	0.004	0.004	0.004
A	-3.056	-4.030	-4.418
WOMEN			
B	0.020	0.020	0.023
SE(B)	0.007	0.005	0.005
A	-9.750	-9.486	-10.397
AGE 55-64 AT EXAM			
MEN			
B	0.006	0.004	0.001
SE(B)	0.004	0.003	0.003
A	-3.310	-2.883	-2.506
WOMEN			
B	0.011	0.012	0.003
SE(B)	0.005	0.004	0.004
A	-5.564	-5.984	-4.078

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 13-3-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: SERUM CHOLESTEROL (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	6	7		12496	38	30		9158	73	80		2878	32	111	
096-189	1532	0	0	1.6	1388	2	14	18.5	1106	6	54	62.2	366	7	191	115.8
190-204	1002	0	0	2.4	1220	4	33	22.1	934	4	43	68.1	340	5	147	114.1
205-219	1206	0	0	3.2	1782	0	0	24.7	1168	10	86	71.9	372	2	54	113.2
220-234	1330	0	0	4.2	1850	10	54	27.5	1362	13	95	76.0	444	5	113	112.3
235-249	988	1	10	5.5	1584	6	38	30.7	1262	13	103	80.0	326	5	153	111.4
250-264	804	1	12	7.0	1436	1	7	33.9	1122	6	53	84.5	334	1	30	110.5
265-279	576	0	0	9.2	1026	6	58	37.9	798	6	75	89.1	258	1	39	109.6
280-294	412	1	24	12.1	696	4	57	42.3	522	3	57	94.1	218	0	0	108.7
295-309	254	1	39	16.1	414	3	72	47.0	332	5	151	99.3	92	3	326	107.9
310-696	358	2	56	56.7	566	1	18	66.4	370	5	135	111.9	110	3	273	106.4
UNKNOWN	460	0			534	1			182	2			18	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	2	2		15650	5	3		11938	23	19		3978	20	50	
096-189	2930	0	0	******	1498	0	0	2.0	490	2	41	5.8	122	0	0	17.5
190-204	1782	0	0	******	1462	0	0	2.3	616	0	0	7.7	172	2	116	22.9
205-219	1494	0	0	******	1812	0	0	2.6	924	2	22	9.2	278	1	36	26.3
220-234	1352	0	0	******	2212	0	0	2.8	1424	0	0	11.0	436	0	0	30.4
235-249	980	1	10	******	1948	1	5	3.1	1374	3	22	13.2	504	3	60	35.3
250-264	632	0	0	******	1660	1	6	3.4	1592	2	13	15.7	520	0	0	40.5
265-279	442	0	0	******	1398	0	0	3.7	1490	2	13	18.7	550	0	0	47.0
280-294	302	0	0	******	1046	0	0	4.1	1200	1	8	22.5	412	3	73	54.9
295-309	160	0	0	******	680	2	29	4.5	878	3	34	27.2	318	5	157	63.3
310-1124	182	1	55	******	1224	1	8	7.1	1626	8	49	47.2	616	5	81	90.9
UNKNOWN	678	0			710	0			324	0			50	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.018	*******	0.007	0.006	0.004	0.012	-0.001	0.010
SE(B)	0.004	******	0.003	0.003	0.003	0.004	0.004	0.005
A	-11.148	*******	-6.845	-8.935	-5.007	-8.885	-3.647	-7.353

TABLE 13-4-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	883	897	28	22	16	32	25	18	1095	1127	1083	5	5	5	5	4	5	
067-119	18	26	17	0	0	0	0	0	0	181	275	242	1	1	2	6	4	8	MEN
120-124	13	43	25	0	2	1	0	47	40	112	245	188	1	2	0	9	8	0	B -0.008 -0.001 0.010
125-129	24	61	30	0	2	1	0	33	33	98	161	170	0	1	1	0	6	6	SE(B) 0.018 0.018 0.023
130-134	61	125	94	3	3	2	49	24	21	87	196	209	0	0	1	0	0	5	A -2.195 -3.415 -5.424
135-139	93	126	109	7	2	1	75	16	9	95	106	121	3	0	0	32	0	0	
140-144	104	149	135	2	4	0	19	27	0	47	44	71	0	0	1	0	0	14	WOMEN
145-149	69	107	194	3	3	5	43	28	26	5	20	28	0	0	0	0	0	0	B -0.011******* -0.042
150-154	84	103	111	2	3	1	24	29	9	8	15	14	0	0	0	0	0	0	SE(B) 0.037 ****** 0.036
155-159	44	58	99	2	2	4	45	34	40	2	8	6	0	0	0	0	0	0	A -3.486******* -0.157
160-216	53	51	65	1	1	1	19	20	15	5	3	1	0	0	0	0	0	0	
UNKNOWN	302	34	18	8	0	0				455	54	33	0	1	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	731	750	734	72	56	48	98	75	65	883	912	945	18	14	13	20	15	14	
067-119	11	30	15	1	1	0	91	33	0	78	175	153	0	4	2	0	23	13	MEN
120-124	21	44	29	4	6	4	190	136	138	88	195	160	3	3	2	34	15	13	B -0.009 0.005 -0.004
125-129	20	41	29	2	2	0	100	49	0	66	130	146	0	3	0	0	23	0	SE(B) 0.014 0.012 0.013
130-134	43	106	94	5	7	7	116	66	74	76	181	189	2	3	4	26	17	21	A -1.004 -3.274 -2.180
135-139	66	102	89	6	7	5	91	69	56	69	93	134	1	0	4	14	0	30	
140-144	78	125	137	5	8	12	64	64	88	34	50	65	0	1	0	0	20	0	WOMEN
145-149	52	103	127	4	6	6	77	58	47	16	24	48	0	0	0	0	0	0	B -0.004 -0.031 0.007
150-154	47	89	83	4	4	4	85	45	48	11	13	20	0	0	1	0	0	50	SE(B) 0.034 0.024 0.025
155-159	31	46	63	2	2	6	65	43	95	3	5	8	0	0	0	0	0	0	A -3.830 -0.155 -5.171
160-216	35	44	53	4	7	2	114	159	38	1	3	4	0	0	0	0	0	0	
UNKNOWN	327	20	15	35	6	2				441	43	18	12	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	348	499	589	45	63	60	129	126	102	437	613	739	26	32	28	59	52	38	
067-119	22	31	24	0	3	2	0	97	83	43	115	98	2	2	2	47	17	20	MEN
120-124	12	25	25	2	2	3	167	80	120	47	107	117	3	4	3	64	37	26	B 0.027 0.019 0.009
125-129	12	34	33	1	5	2	83	147	61	40	92	106	1	4	5	25	43	47	SE(B) 0.015 0.011 0.012
130-134	34	77	53	5	9	4	147	117	75	50	133	179	3	9	5	60	68	28	A -5.659 -4.556 -3.509
135-139	35	77	83	7	7	11	200	91	133	39	60	88	1	2	4	26	33	45	
140-144	49	92	101	3	9	10	61	98	99	23	46	62	2	7	3	87	152	48	WOMEN
145-149	17	47	106	3	13	11	176	277	104	7	14	43	1	2	3	143	143	70	B -0.019 0.041 0.034
150-154	26	51	66	5	6	4	192	118	61	5	10	16	0	1	0	0	100	0	SE(B) 0.026 0.017 0.018
155-159	12	32	55	1	2	4	83	63	73	2	6	10	0	0	1	0	0	100	A -0.527 -8.207 -7.682
160-216	17	18	39	5	5	8	294	278	205	1	1	2	0	0	1	0	0	500	
UNKNOWN	112	15	4	13	2	1				180	29	18	13	1	1				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 13-4-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	6	7		12496	38	30		9158	73	80		2878	32	111	
067-119	138	0	0	1.0	148	0	0	34.6	228	1	44	86.6	50	0	0	111.1
120-124	206	1	49	1.5	268	1	37	33.8	196	5	255	84.6	26	1	385	111.3
125-129	282	0	0	1.9	294	0	0	33.3	246	0	0	83.6	52	0	0	111.5
130-134	694	0	0	2.6	848	3	35	32.7	682	8	117	82.5	134	0	0	111.7
135-139	892	0	0	3.6	1076	8	74	32.2	850	2	24	81.4	262	3	115	111.9
140-144	1312	0	0	4.6	1758	6	34	31.7	1396	10	72	80.4	378	6	159	112.0
145-149	1574	1	6	6.0	2144	3	14	31.2	1586	21	132	79.5	454	7	154	112.2
150-154	1304	0	0	8.0	1914	6	31	30.7	1382	7	51	78.5	572	6	105	112.4
155-159	1000	1	10	10.4	1558	4	26	30.3	1168	7	60	77.5	414	4	97	112.6
160-216	980	3	31	18.2	1878	6	32	29.4	1196	10	84	75.7	508	5	98	112.9
UNKNOWN	540	0			610	1			228	2			28	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	2	2		15650	5	3		11938	23	19		3978	20	50	
067-119	1964	1	5	******	1662	1	6	0.9	980	1	10	12.7	208	1	48	32.1
120-124	1584	0	0	******	1746	0	0	1.5	1090	3	28	15.1	252	0	0	37.8
125-129	1550	0	0	******	1962	0	0	1.9	1352	2	15	16.6	394	0	0	40.7
130-134	2036	0	0	******	2818	0	0	2.6	2388	3	13	18.4	702	5	71	44.1
135-139	1448	0	0	******	2568	0	0	3.5	1964	4	20	20.4	692	3	43	47.6
140-144	816	1	12	******	1826	2	11	4.6	1638	5	31	22.5	712	2	28	51.3
145-149	428	0	0	******	1252	1	8	6.1	1110	3	27	24.8	456	5	110	55.4
150-154	188	0	0	******	600	0	0	8.2	554	0	0	27.5	264	2	76	59.9
155-159	78	0	0	******	202	0	0	10.8	298	0	0	30.5	156	0	0	64.6
160-216	34	0	0	******	156	1	64	17.3	170	2	118	35.9	86	1	116	73.0
UNKNOWN	808	0			858	0			394	0			56	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.055	*******	-0.003	0.058	-0.003	0.020	0.000	0.016
SE(B)	0.029	******	0.013	0.039	0.010	0.019	0.015	0.021
A	-14.878	*******	-4.602	-15.204	-3.748	-8.295	-3.823	-6.810

TABLE 13-5-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	28	22	16	32	25	18	1095	1127	1083	5	5	5	5	4	5
062-159	253	238	128	10	4	1	40	17	8	343	444	216	3	2	1	9	5	5
160-179	83	141	75	2	1	1	24	7	13	104	193	127	1	0	0	10	0	0
180-199	100	156	113	2	4	0	20	26	0	92	151	132	0	1	0	0	7	0
200-219	45	133	125	0	1	2	0	8	16	59	150	186	0	0	1	0	0	5
220-239	34	64	123	4	4	1	118	63	8	39	73	148	1	1	1	26	14	7
240-259	30	36	106	1	2	3	33	56	28	18	32	117	0	0	1	0	0	9
260-279	16	39	77	1	1	2	63	26	26	7	22	59	0	0	0	0	0	0
280-299	3	23	61	0	1	2	0	43	33	3	12	43	0	0	0	0	0	0
300-319	4	13	32	1	1	1	250	77	31	1	4	16	0	0	0	0	0	0
320-968	7	12	39	0	2	3	0	167	77	0	6	9	0	0	0	****	0	0
UNKNOWN	290	28	18	7	1	0				429	40	30	0	1	1			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	72	56	48	98	75	65	883	912	945	18	14	13	20	15	14
062-159	158	212	112	13	9	5	82	42	45	159	204	133	2	3	1	13	15	8
160-179	68	119	81	11	10	5	162	84	62	66	114	90	0	0	1	0	0	11
180-199	47	132	90	2	12	5	43	91	56	72	142	86	0	0	0	0	0	0
200-219	49	117	109	5	9	8	102	77	73	72	170	172	2	2	1	28	12	6
220-239	20	64	91	1	4	6	50	63	66	33	100	95	0	2	0	0	20	0
240-259	27	41	78	1	5	5	37	122	64	19	66	114	1	1	3	53	15	26
260-279	24	29	58	3	1	2	125	34	34	13	52	94	0	4	3	0	77	32
280-299	10	12	50	1	1	5	100	83	100	10	18	60	0	0	0	0	0	0
300-319	4	5	24	0	1	2	0	200	83	5	6	31	1	0	2	200	0	65
320-968	5	4	26	1	0	3	200	0	115	11	7	45	0	2	2	0	286	44
UNKNOWN	319	15	15	34	4	2				423	33	25	12	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	45	63	60	129	126	102	437	613	739	26	32	28	59	52	38
062-159	92	124	84	13	15	8	141	121	95	72	80	60	4	4	3	56	50	50
160-179	49	83	59	5	9	7	102	108	119	38	80	47	3	3	2	79	38	43
180-199	26	75	68	5	12	6	192	160	88	37	108	86	2	3	3	54	28	35
200-219	31	87	85	2	9	8	65	103	94	40	124	113	1	4	2	25	32	18
220-239	14	55	89	2	6	11	143	109	124	29	79	101	3	6	4	103	76	40
240-259	9	29	83	1	4	7	111	138	84	14	46	112	0	5	4	0	109	36
260-279	14	20	47	4	4	1	286	200	21	15	31	63	1	2	3	67	65	48
280-299	3	12	23	1	3	3	333	250	130	5	23	68	0	2	2	0	87	29
300-319	0	2	29	0	1	5	****	500	172	8	9	41	2	1	1	250	111	24
320-968	3	3	20	0	0	4	0	0	200	6	9	33	0	1	3	0	111	91
UNKNOWN	107	9	2	12	0	0				173	24	15	10	1	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.003	0.007	0.012
SE(B)	0.004	0.003	0.004
A	-3.792	-5.108	-6.869
WOMEN			
B	0.001	**********	
SE(B)	0.010	******	******
A	-5.046	**********	
AGE 45-54 AT EXAM			
MEN			
B	0.000	0.003	0.004
SE(B)	0.003	0.003	0.003
A	-2.368	-3.147	-3.474
WOMEN			
B	0.008	0.018	0.012
SE(B)	0.007	0.006	0.005
A	-5.838	-8.063	-7.124
AGE 55-64 AT EXAM			
MEN			
B	0.001	0.001	0.001
SE(B)	0.003	0.003	0.002
A	-1.944	-2.019	-2.484
WOMEN			
B	0.002	0.006	0.002
SE(B)	0.005	0.004	0.004
A	-3.190	-4.125	-3.605

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 13-5-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	6	7		12496	38	30		9158	73	80		2878	32	111	
062-159	1334	0	0	2.4	1156	2	17	18.3	758	5	66	74.3	64	1	156	55.2
160-179	666	1	15	3.3	654	2	31	21.2	488	4	82	75.8	70	0	0	65.3
180-199	946	0	0	4.1	838	3	36	23.2	620	5	81	76.7	60	1	167	72.3
200-219	906	0	0	4.9	1040	4	38	25.4	810	6	74	77.6	214	1	47	81.2
220-239	892	1	11	6.0	1246	2	16	27.8	980	9	92	78.5	308	8	260	90.5
240-259	946	0	0	7.2	1656	4	24	30.3	1352	11	81	79.4	564	2	35	100.9
260-279	956	0	0	8.7	1630	4	25	33.0	1388	9	65	80.4	544	3	55	112.4
280-299	648	1	15	10.4	1422	4	28	35.8	1054	11	104	81.2	426	5	117	123.8
300-319	510	2	39	12.8	994	4	40	39.2	724	3	41	82.2	336	5	149	138.0
320-968	618	1	16	20.3	1268	8	63	48.0	778	8	103	84.1	274	6	219	164.9
UNKNOWN	500	0			592	1			206	2			18	0		

	WOMEN				WOMEN				WOMEN				WOMEN			
	AGED 35-44 AT EXAM				AGED 45-54 AT EXAM				AGED 55-64 AT EXAM				AGED 65-74 AT EXAM			
TOTAL	10934	2	2		15650	5	3		11938	23	19		3978	20	50	
062-159	2238	0	0	******	1336	0	0	1.3	618	1	16	7.3	30	0	0	16.3
160-179	984	0	0	******	768	0	0	1.6	464	0	0	9.3	50	0	0	20.0
180-199	1106	0	0	******	878	0	0	1.9	618	1	16	10.6	68	0	0	23.3
200-219	1296	0	0	******	1572	0	0	2.2	974	0	0	12.5	180	1	56	27.2
220-239	1246	1	8	******	1562	0	0	2.6	980	3	31	14.4	224	2	89	31.5
240-259	1184	0	0	******	1928	1	5	3.0	1304	3	23	16.4	418	0	0	35.9
260-279	892	1	11	******	2030	1	5	3.5	1610	4	25	18.8	656	5	76	41.1
280-299	618	0	0	******	1690	1	6	4.0	1510	0	0	21.7	666	1	15	47.0
300-319	364	0	0	******	1366	0	0	4.6	1472	4	27	24.8	734	2	27	53.4
320-968	264	0	0	******	1710	2	12	6.9	2022	7	35	33.4	888	8	90	70.5
UNKNOWN	742	0			810	0			366	0			64	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.010	*******	0.004	0.007	0.001	0.007	0.006	0.007
SE(B)	0.005	******	0.002	0.004	0.002	0.004	0.004	0.005
A	-8.921	*******	-6.194	-9.281	-4.272	-7.485	-5.260	-6.686

TABLE 13-6-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	28	22	16	32	25	18	1095	1127	1083	5	5	5	5	4	5
029-059	16	21	17	0	0	0	0	0	0	12	18	20	0	0	0	0	0	0
060-069	153	138	147	2	2	3	13	14	20	149	176	171	3	1	1	20	6	6
070-079	215	316	326	13	7	8	60	22	25	287	397	391	0	2	2	0	5	5
080-089	182	219	221	5	8	3	27	37	14	237	303	305	0	0	1	0	0	3
090-099	71	105	113	3	3	2	42	29	18	92	128	111	0	1	0	0	8	0
100-109	30	39	42	1	1	0	33	26	0	34	45	33	0	0	0	0	0	0
110-119	17	13	11	1	0	0	59	0	0	14	17	15	0	0	0	0	0	0
120-129	7	2	6	0	0	0	0	0	0	5	7	5	0	0	0	0	0	0
130-139	5	5	3	0	1	0	0	200	0	2	1	4	0	0	0	0	0	0
140-524	4	5	4	0	0	0	0	0	0	4	5	7	2	1	1	500	200	143
UNKNOWN	165	20	7	3	0	0				259	30	21	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	72	56	48	98	75	65	883	912	945	18	14	13	20	15	14
029-059	11	15	13	1	2	1	91	133	77	5	10	14	0	0	0	0	0	0
060-069	103	98	102	9	7	7	87	71	69	88	123	122	1	0	2	11	0	16
070-079	156	252	227	19	19	19	122	75	84	171	263	332	3	5	4	18	19	12
080-089	132	185	212	10	7	5	76	38	24	196	284	267	2	6	3	10	21	11
090-099	79	102	91	4	6	7	51	59	77	87	114	117	1	0	2	11	0	17
100-109	20	37	43	3	6	4	150	162	93	46	50	37	0	1	1	0	20	27
110-119	13	24	14	1	2	1	77	83	71	14	23	21	0	0	0	0	0	0
120-129	3	7	6	1	2	1	333	286	167	6	3	4	0	0	0	0	0	0
130-139	6	2	3	0	0	0	0	0	0	2	4	5	0	0	0	0	0	0
140-524	15	17	15	6	2	1	400	118	67	9	13	15	2	2	1	222	154	67
UNKNOWN	193	11	8	18	3	2				259	25	11	9	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	45	63	60	129	126	102	437	613	739	26	32	28	59	52	38
029-059	8	9	7	0	1	0	0	111	0	5	15	12	0	2	1	0	133	83
060-069	40	70	80	2	9	3	50	129	38	35	60	62	3	4	5	86	67	81
070-079	91	152	172	13	24	18	143	158	105	95	164	211	1	7	6	11	43	28
080-089	72	129	147	12	12	16	167	93	109	91	171	228	5	6	3	55	35	13
090-099	38	58	94	7	2	8	184	34	85	55	99	99	2	1	1	36	10	10
100-109	13	23	31	2	2	5	154	87	161	24	46	56	3	4	3	125	87	54
110-119	8	21	18	1	6	2	125	286	111	4	9	18	0	2	3	0	222	167
120-129	3	8	15	1	2	2	333	250	133	6	12	18	0	2	1	0	167	56
130-139	2	2	4	0	0	0	0	0	0	4	1	3	1	0	0	250	0	0
140-524	10	15	18	3	4	6	300	267	333	14	18	23	3	3	4	214	167	174
UNKNOWN	63	12	3	4	1	0				104	18	9	8	1	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	-0.002	0.013	-0.035
SE(B)	0.013	0.012	0.023
A	-3.152	-4.703	-1.312
WOMEN			
B	0.026	0.038	0.015
SE(B)	0.008	0.019	0.011
A	-7.383	-8.586	-6.566
AGE 45-54 AT EXAM			
MEN			
B	0.009	0.005	0.001
SE(B)	0.003	0.004	0.006
A	-2.949	-2.962	-2.750
WOMEN			
B	0.016	0.018	0.005
SE(B)	0.008	0.007	0.009
A	-5.646	-5.728	-4.661
AGE 55-64 AT EXAM			
MEN			
B	0.007	0.007	0.011
SE(B)	0.004	0.004	0.003
A	-2.398	-2.574	-3.182
WOMEN			
B	0.007	0.007	0.010
SE(B)	0.005	0.004	0.003
A	-3.555	-3.505	-4.180

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 13-6-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGEO 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	6	7		12496	38	30		9158	73	80		2878	32	111	
029-059	296	0	0	10.8	350	1	29	28.6	264	3	114	69.5	70	0	0	67.8
060-069	1734	0	0	8.8	2276	5	22	29.2	1486	4	27	72.5	498	7	141	77.7
070-079	2946	5	17	7.4	4068	15	37	29.9	2800	20	71	75.3	818	8	98	86.5
080-089	2084	0	0	6.2	2882	7	24	30.6	2216	23	104	78.2	652	3	46	97.2
090-099	914	1	11	5.1	1356	4	29	31.3	1082	11	102	81.3	420	4	95	109.5
100-109	350	0	0	4.3	552	3	54	32.0	454	3	66	84.6	142	1	70	122.7
110-119	160	0	0	3.5	258	0	0	32.8	248	3	121	88.3	70	2	286	139.1
120-129	52	0	0	3.0	104	0	0	33.5	136	0	0	92.1	42	1	238	157.5
130-139	36	0	0	2.4	58	1	172	34.4	60	1	167	96.0	36	0	0	172.9
140-524	58	0	0	1.2	244	1	41	41.4	256	3	117	131.4	106	6	566	532.5
UNKNOWN	292	0			348	1			156	2			24	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGEO 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	2	2		15650	5	3		11938	23	19		3978	20	50	
029-059	260	0	0	******	308	0	0	1.3	244	0	0	17.2	64	0	0	23.2
060-069	1864	0	0	******	2716	0	0	1.6	1526	5	33	18.0	474	4	84	27.5
070-079	3868	1	3	******	5262	1	2	2.0	3776	5	13	18.7	1250	5	40	32.3
080-089	2880	1	3	******	3944.	2	5	2.5	3206	6	19	19.4	1016	2	20	37.7
090-099	986	0	0	******	1630	0	0	3.1	1478	2	14	20.2	536	3	56	44.1
100-109	322	0	0	******	632	0	0	3.9	642	1	16	21.1	262	0	0	51.5
110-119	136	0	0	******	294	0	0	4.9	272	2	74	22.0	88	0	0	61.5
120-129	48	0	0	******	100	0	0	6.1	204	0	0	22.9	100	0	0	72.1
130-139	20	0	0	******	40	0	0	7.8	58	0	0	24.0	34	0	0	82.9
140-524	58	0	0	******	170	2	118	89.8	294	2	68	34.6	112	5	446	395.7
UNKNOWN	492	0			554	0			238	0			42	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	-0.019	*******	0.002	0.023	0.004	0.004	0.012	0.016
SE(B)	0.032	******	0.006	0.005	0.003	0.005	0.003	0.003
A	-5.125	*******	-5.293	-9.551	-4.489	-5.900	-4.953	-6.248

TABLE 13-7-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: URIC ACID (MG/LITER)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WDMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	28	22	16	32	25	18	1095	1127	1083	5	5	5	5	4	5
005-029	30	15	22	1	0	1	33	0	45	188	170	170	2	1	1	11	6	6
030-034	36	41	29	2	2	1	56	49	34	120	208	255	0	1	1	0	5	4
035-039	77	53	64	5	2	3	65	38	47	124	273	267	1	1	2	8	4	7
040-044	77	138	151	2	5	3	26	36	20	112	219	209	1	1	1	9	5	5
045-049	90	159	183	3	2	2	33	13	11	66	117	88	1	0	0	15	0	0
050-054	98	153	175	3	3	3	31	20	17	22	56	44	0	0	0	0	0	0
055-059	74	121	139	2	4	1	27	33	7	23	28	20	0	0	0	0	0	0
060-064	43	87	67	2	2	0	47	23	0	6	9	3	0	0	0	0	0	0
065-069	29	53	29	1	1	2	34	19	69	4	4	4	0	0	0	0	0	0
070-104	24	35	24	0	0	0	0	0	0	5	4	1	0	0	0	0	0	0
UNKNOWN	287	28	14	7	1	0				425	39	22	0	1	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	72	56	48	98	75	65	883	912	945	18	14	13	20	15	14
005-029	23	18	9	2	2	0	87	111	0	88	101	103	0	1	0	0	10	0
030-034	27	23	25	1	0	0	37	0	0	73	114	162	2	1	3	27	9	19
035-039	46	67	49	2	4	4	43	60	82	80	176	203	2	2	2	25	11	10
040-044	51	103	124	6	5	5	118	49	40	73	178	185	1	2	1	14	11	5
045-049	75	127	153	7	12	12	93	94	78	76	121	134	0	2	3	0	17	22
050-054	60	117	139	7	10	12	117	85	86	36	87	87	0	0	2	0	0	23
055-059	57	110	93	4	11	7	70	100	75	15	61	41	1	4	1	67	66	24
060-064	37	78	79	5	6	6	135	77	76	14	26	10	0	1	0	0	38	0
065-069	22	47	30	2	1	0	91	21	0	8	8	4	0	0	0	0	0	0
070-104	24	47	20	2	1	1	83	21	50	3	7	2	0	1	1	0	143	500
UNKNOWN	309	13	13	34	4	1				417	33	14	12	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	45	63	60	129	126	102	437	613	739	26	32	28	59	52	38
005-029	9	8	5	0	0	1	0	0	200	26	60	53	2	1	0	77	17	0
030-034	19	21	15	5	3	0	263	143	0	39	72	99	4	5	4	103	69	40
035-039	26	47	60	1	6	7	38	128	117	49	104	138	3	6	5	61	58	36
040-044	38	61	92	5	6	7	132	98	76	60	119	174	5	5	4	83	42	23
045-049	40	85	116	8	10	10	200	118	86	38	102	124	1	3	6	26	29	48
050-054	39	84	116	6	9	15	154	107	129	27	61	66	0	5	1	0	82	15
055-059	33	73	92	1	14	7	30	192	76	16	38	39	0	3	3	0	79	77
060-064	19	61	50	3	9	6	158	148	120	4	20	17	0	0	1	0	0	59
065-069	12	29	26	1	2	5	83	69	192	4	10	11	0	0	2	0	0	182
070-104	11	22	14	3	4	2	273	182	143	4	6	6	1	3	1	250	500	167
UNKNDWN	102	8	3	12	0	0				170	21	12	10	1	1			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	-0.015	-0.019	-0.036
SE(B)	0.018	0.021	0.026
A	-2.589	-2.730	-2.289
WDMEN			
B	-0.007	******	-0.054
SE(B)	0.042	******	0.059
A	-4.647	******	-3.467
AGE 45-54 AT EXAM			
MEN			
B	0.009	-0.005	0.011
SE(B)	0.013	0.012	0.015
A	-2.761	-2.331	-3.234
WDMEN			
B	0.004	0.057	0.057
SE(B)	0.037	0.025	0.029
A	-4.495	-6.669	-6.668
AGE 55-64 AT EXAM			
MEN			
B	0.005	0.014	0.014
SE(B)	0.016	0.012	0.014
A	-2.095	-2.616	-2.894
WDMEN			
B	-0.029	0.030	0.045
SE(B)	0.026	0.017	0.019
A	-1.603	-4.213	-5.220

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 13-7-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: URIC ACID (MG/LITER)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	6	7		12496	38	30		9158	73	80		2878	32	111	
005-029	190	0	0	10.4	184	0	0	36.3	88	1	114	58.3	40	0	0	81.2
030-034	352	0	0	9.3	372	1	27	34.8	330	3	91	63.9	112	1	89	88.1
035-039	642	1	16	8.6	1004	6	60	33.7	808	3	37	67.3	250	3	120	93.5
040-044	1408	0	0	7.9	1830	5	27	32.7	1460	8	55	71.7	534	7	131	100.6
045-049	1654	3	18	7.3	2436	6	25	31.7	1914	18	94	76.1	534	4	75	107.5
050-054	1592	2	13	6.8	2344	10	43	30.7	1568	14	89	80.6	480	4	83	114.5
055-059	1226	0	0	6.3	1696	4	24	29.7	1300	10	77	85.5	448	6	134	122.6
060-064	712	0	0	5.8	1048	0	0	28.8	840	11	131	90.7	254	3	118	130.9
065-069	406	0	0	5.3	532	4	75	27.9	368	1	27	96.2	118	3	254	139.1
070-104	266	0	0	4.6	466	1	21	26.2	282	2	71	107.8	82	1	122	157.3
UNKNOWN	474	0			584	1			200	2			26	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	2	2		15650	5	3		11938	23	19		3978	20	50	
005-029	1824	1	5	******	2154	1	5	2.0	1036	1	10	4.7	266	2	75	77.0
030-034	2292	0	0	******	2698	1	4	2.5	1610	3	19	7.6	484	7	145	63.8
035-039	2484	0	0	******	3428	1	3	3.0	2352	1	4	10.8	780	3	38	55.2
040-044	2008	1	5	******	3162	1	3	3.6	2714	2	7	15.8	874	2	23	47.5
045-049	888	0	0	******	1700	0	0	4.2	1874	5	27	23.1	740	2	27	40.7
050-054	382	0	0	******	972	0	0	5.0	1050	3	29	33.5	402	1	25	34.8
055-059	224	0	0	******	434	0	0	6.0	504	3	60	47.9	220	0	0	30.7
060-064	66	0	0	******	206	0	0	7.0	240	3	125	68.2	66	1	152	26.3
065-069	32	0	0	******	98	0	0	8.5	142	1	70	100.8	36	0	0	22.8
070-104	26	0	0	******	28	1	357	10.4	64	1	156	177.3	38	1	263	17.2
UNKNOWN	708	0			770	0			352	0			72	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	-0.016	*******	-0.007	0.035	0.012	0.076	0.014	-0.031
SE(B)	0.040	******	0.016	0.047	0.012	0.019	0.018	0.026
A	-5.773	*******	-4.749	-8.714	-4.751	-8.942	-4.479	-3.356

TABLE 13-8-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	28	22	16	32	25	18	1095	1127	1083	5	5	5	5	4	5
052-084	98	85	73	3	1	0	31	12	0	196	196	174	0	0	0	0	0	0
085-089	78	77	83	3	2	2	38	26	24	129	150	159	0	0	1	0	0	6
090-094	105	114	94	4	5	0	38	44	0	153	179	166	0	1	0	0	6	0
095-099	122	137	142	4	3	2	33	22	14	153	155	142	0	0	0	0	0	0
100-104	108	104	119	2	3	0	19	29	0	120	110	130	0	0	0	0	0	0
105-109	112	105	117	2	1	2	18	10	17	96	92	84	3	0	1	31	0	12
110-114	88	100	107	3	3	4	34	30	37	64	60	60	0	3	0	0	50	0
115-119	58	63	58	2	2	3	34	32	52	45	57	45	1	0	2	22	0	44
120-124	40	42	43	3	1	2	75	24	47	29	39	37	0	0	0	0	0	0
125-226	51	51	56	2	1	1	39	20	18	99	76	76	1	1	1	10	13	13
UNKNOWN	5	5	5	0	0	0				11	13	10	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	72	56	48	98	75	65	883	912	945	18	14	13	20	15	14
052-084	57	65	64	3	4	3	53	62	47	69	82	93	2	2	1	29	24	11
085-089	51	51	52	7	3	2	137	59	38	56	75	90	0	0	1	0	0	11
090-094	103	84	83	6	2	4	58	24	48	83	89	109	0	0	0	0	0	0
095-099	98	120	94	6	6	7	61	50	74	124	120	141	0	1	0	0	8	0
100-104	111	108	117	12	7	7	108	65	60	127	128	122	5	2	3	39	16	25
105-109	120	107	109	9	7	5	75	65	46	101	103	101	1	5	1	10	49	10
110-114	68	91	85	8	7	8	118	77	94	80	84	81	2	0	3	25	0	37
115-119	52	54	61	5	8	8	96	148	131	63	69	61	2	4	4	32	58	66
120-124	23	29	26	2	4	1	87	138	38	52	46	35	3	0	0	58	0	0
125-226	43	37	40	13	8	3	302	216	75	123	112	109	3	0	0	24	0	0
UNKNOWN	5	4	3	1	0	0				5	4	3	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	45	63	60	129	126	102	437	613	739	26	32	28	59	52	38
052-084	47	53	50	5	8	6	106	151	120	30	40	50	1	2	1	33	50	20
085-089	24	34	44	3	4	3	125	118	68	25	38	48	2	0	0	80	0	0
090-094	31	49	62	2	7	5	65	143	81	39	57	63	2	2	2	51	35	32
095-099	55	83	90	7	4	8	127	48	89	47	73	101	2	4	5	43	55	50
100-104	54	71	90	9	17	9	167	239	100	51	84	103	4	8	7	78	95	68
105-109	35	63	85	4	3	8	114	48	94	39	57	85	3	0	2	77	0	24
110-114	39	59	78	2	5	4	51	85	51	47	64	57	6	3	1	128	47	18
115-119	24	41	37	5	5	7	208	122	189	43	44	63	1	1	2	23	23	32
120-124	20	24	25	3	4	3	150	167	120	29	50	46	0	5	2	0	100	43
125-226	15	19	27	3	4	6	200	211	222	85	105	120	5	7	6	59	67	50
UNKNOWN	4	3	1	2	2	1				2	1	3	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.005	-0.003	0.029
SE(B)	0.013	0.016	0.016
A	-3.852	-3.380	-7.072
WOMEN			
B	0.029	0.031	0.031
SE(B)	0.016	0.019	0.018
A	-8.477	-8.625	-8.562
AGE 45-54 AT EXAM			
MEN			
B	0.031	0.035	0.016
SE(B)	0.009	0.010	0.011
A	-5.450	-6.194	-4.294
WOMEN			
B	0.017	-0.002	0.006
SE(B)	0.011	0.015	0.014
A	-5.675	-3.906	-4.909
AGE 55-64 AT EXAM			
MEN			
B	0.008	0.004	0.014
SE(B)	0.011	0.010	0.010
A	-2.715	-2.338	-3.601
WOMEN			
B	0.002	0.008	0.005
SE(B)	0.010	0.009	0.010
A	-2.943	-3.778	-3.817

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 13-8-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	6	7		12496	38	30		9158	73	80		2878	32	111	
052-084	752	0	0	4.8	966	3	31	36.0	772	8	104	60.2	336	3	89	101.8
085-089	724	1	14	5.3	932	2	21	33.8	618	5	81	66.2	232	2	86	102.9
090-094	958	0	0	5.7	1344	3	22	32.4	944	7	74	70.2	286	4	140	103.6
095-099	1414	0	0	6.1	1764	10	57	31.1	1430	13	91	74.4	414	4	97	104.2
100-104	1198	2	17	6.6	1880	5	27	29.9	1512	7	46	78.8	400	5	125	104.8
105-109	1150	1	9	7.0	1812	5	28	28.7	1324	4	30	83.3	402	4	100	105.4
110-114	1024	0	0	7.5	1438	2	14	27.6	1022	11	108	88.2	366	2	55	106.1
115-119	644	1	16	8.1	914	4	44	26.5	656	3	46	93.4	176	3	170	106.7
120-124	430	1	23	8.7	584	3	51	25.4	474	8	169	99.0	104	1	96	107.4
125-226	578	0	0	10.3	798	0	0	23.4	376	7	186	112.9	148	2	135	108.8
UNKNOWN	50	0			64	1			30	0			14	2		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	2	2		15650	5	3		11938	23	19		3978	20	50	
052-084	1884	0	0	******	1678	1	6	2.4	932	1	11	19.5	428	3	70	68.3
085-089	1494	1	7	******	1692	0	0	2.6	920	1	11	19.5	244	0	0	61.5
090-094	1690	0	0	******	1916	0	0	2.8	1176	0	0	19.5	356	2	56	58.2
095-099	1524	0	0	******	2300	0	0	2.9	1634	3	18	19.4	490	1	20	54.9
100-104	1182	0	0	******	1926	0	0	3.1	1522	5	33	19.4	488	4	82	51.9
105-109	814	0	0	******	1572	1	6	3.3	1340	5	37	19.3	460	5	109	49.1
110-114	612	0	0	******	1208	1	8	3.5	1158	2	17	19.3	336	1	30	46.3
115-119	490	0	0	******	906	1	11	3.7	852	2	23	19.3	300	3	100	43.7
120-124	316	0	0	******	626	1	16	3.9	628	1	16	19.2	230	0	0	41.4
125-226	822	1	12	******	1724	0	0	5.0	1732	3	17	19.1	636	1	16	34.7
UNKNOWN	106	0			102	0			44	0			10	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.014	*******	-0.008	0.012	0.012	-0.000	0.001	-0.012
SE(B)	0.027	******	0.013	0.020	0.009	0.011	0.013	0.013
A	-8.073	*******	-4.277	-8.587	-5.337	-5.513	-3.972	-3.377

TABLE 13-9-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	28	22	16	32	25	18	1095	1127	1083	5	5	5	5	4	5
05-14	1	0	1	0	0	0	0	****	0	9	12	7	0	0	0	0	0	0
15-19	1	5	3	0	0	0	0	0	0	62	46	28	1	1	1	16	22	36
20-24	12	13	10	1	1	1	83	77	100	234	190	191	1	1	0	4	5	0
25-29	43	45	30	1	2	0	23	44	0	415	477	411	2	2	4	5	4	10
30-34	157	128	135	6	3	2	38	23	15	285	310	332	1	1	0	4	3	0
35-39	250	256	249	7	5	6	28	20	24	70	81	96	0	0	0	0	0	0
40-44	237	269	257	7	7	4	30	26	16	10	7	15	0	0	0	0	0	0
45-49	116	120	146	6	3	3	52	25	21	2	2	1	0	0	0	0	0	0
50-54	33	38	56	0	1	0	0	26	0	1	0	0	0	0	0	0	****	****
55-61	5	7	9	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
UNKNOWN	10	2	1	0	0	0				7	2	2	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	72	56	48	98	75	65	883	912	945	18	14	13	20	15	14
05-14	1	1	0	0	0	0	0	0	****	20	30	22	0	1	0	0	33	0
15-19	3	5	5	0	1	0	0	200	0	109	120	94	6	4	5	55	33	53
20-24	25	17	18	3	1	1	120	59	56	331	308	312	10	6	6	30	19	19
25-29	76	74	87	8	6	6	105	81	69	276	314	340	1	1	1	4	3	3
30-34	176	203	196	14	13	12	80	64	61	125	123	153	1	1	1	8	8	7
35-39	228	234	212	22	20	17	96	85	80	16	15	22	0	1	0	0	67	0
40-44	148	159	153	18	12	8	122	75	52	2	1	2	0	0	0	0	0	0
45-49	54	44	49	6	2	3	111	45	61	0	0	0	0	0	0	****	****	****
50-54	15	11	11	0	1	1	0	91	91	0	0	0	0	0	0	****	****	****
55-61	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
UNKNOWN	3	0	1	1	0	0				4	1	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	45	63	60	129	126	102	437	613	739	26	32	28	59	52	38
05-14	1	3	4	1	1	1	1000	333	250	26	47	53	2	2	2	77	43	38
15-19	3	14	7	1	2	0	333	143	0	85	142	157	5	14	13	59	99	83
20-24	19	37	43	2	4	7	105	108	163	207	256	313	16	10	8	77	39	26
25-29	71	89	111	12	17	15	169	191	135	85	141	169	3	5	5	35	35	30
30-34	107	144	173	12	19	13	112	132	75	24	24	41	0	1	0	0	42	0
35-39	96	145	172	10	13	18	104	90	105	4	2	5	0	0	0	0	0	0
40-44	35	50	61	5	6	5	143	120	82	0	0	0	0	0	0	****	****	****
45-49	8	13	12	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
50-54	1	1	4	0	0	1	0	0	250	0	0	0	0	0	0	****	****	****
55-61	0	0	0	0	0	0	****	****	****	0	0	0	0	0	0	****	****	****
UNKNOWN	7	3	2	2	1	0				6	1	1	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	-0.009	-0.016	-0.023
SE(B)	0.030	0.033	0.038
A	-3.034	-3.049	-3.089
WOMEN			
B	-0.068	-0.111	-0.088
SE(B)	0.084	0.083	0.086
A	-3.594	-2.499	-2.993
AGE 45-54 AT EXAM			
MEN			
B	-0.002	-0.008	-0.003
SE(B)	0.019	0.022	0.023
A	-2.167	-2.244	-2.552
WOMEN			
B	-0.114	-0.078	-0.132
SE(B)	0.047	0.051	0.053
A	-1.256	-2.341	-1.208
AGE 55-64 AT EXAM			
MEN			
B	-0.054	-0.043	-0.030
SE(B)	0.028	0.021	0.021
A	-0.187	-0.577	-1.206
WOMEN			
B	-0.058	-0.089	-0.084
SE(B)	0.042	0.035	0.036
A	-1.510	-1.073	-1.491

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

[illegible]

CHARA. VALUE	MEN 1	MEN 2	MEN 3	MEN 1	MEN 2	MEN 3	MEN 1	MEN 2	MEN 3	WOMEN 1	WOMEN 2	WOMEN 3	WOMEN 1	WOMEN 2	WOMEN 3	WOMEN 1	WOMEN 2	WOMEN 3
AGE [illegible] AT EXAM																		
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NONE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
000-009	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
010-019	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	101	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]
020-029	[illegible]	77	77	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	61	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
030-039	[illegible]	[illegible]	[illegible]	[illegible]	2	2	[illegible]	[illegible]	[illegible]	0	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
040-049	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
050-059	[illegible]	[illegible]	[illegible]	[illegible]	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
060-069	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
070-079	[illegible]	7	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
080-450	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
UNKNOWN	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]				[illegible]	[illegible]	[illegible]	5	1	1			
AGE [illegible] AT EXAM																		
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	14	[illegible]	20	15	4
NONE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	72	[illegible]	[illegible]	[illegible]	[illegible]	15	[illegible]
000-009	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	310	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16	[illegible]
010-019	[illegible]	77	78	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	78	[illegible]	54	[illegible]	[illegible]	1	1	[illegible]	17	[illegible]
020-029	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0
030-039	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	77	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
040-049	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
050-059	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]
060-069	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	1	1	[illegible]	143	100
070-079	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	1	1	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]
080-450	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	[illegible]	59	47	[illegible]	7	7	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]
UNKNOWN	[illegible]	[illegible]	[illegible]	12	7	[illegible]				[illegible]	63	[illegible]	18	[illegible]	[illegible]			
AGE 55 64 AT EXAM																		
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	126	102	[illegible]	[illegible]	[illegible]	26	32	26	59	52	56
NONE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	33	[illegible]
000-009	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	93	[illegible]	0	[illegible]	[illegible]	[illegible]	5	5	****	27	22
010-019	0	[illegible]	[illegible]	[illegible]	5	[illegible]	****	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	0	****	0	0
020-029	0	24	[illegible]	[illegible]	3	3	[illegible]	125	[illegible]	[illegible]	20	20	[illegible]	1	[illegible]	****	[illegible]	[illegible]
030-039	[illegible]	36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	111	[illegible]	0	[illegible]	21	[illegible]	2	2	****	105	[illegible]
040-049	0	23	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	****	[illegible]	0
050-059	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	****	[illegible]	0
060-069	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	1	[illegible]	0	0	****	0	0
070-079	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	0	****	0	0
080-450	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	1	1	[illegible]	200	100
UNKNOWN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]	[illegible]	[illegible]	26	[illegible]	[illegible]			

LOGISTIC PARAMETERS

	1	2	3
AGE [illegible] AT EXAM			
MEN			
B	*******	[illegible]	-0.011
SE(B)	*******	[illegible]	0.011
A	*******	[illegible]	[illegible]
WOMEN			
B	*******	*******	*******
SE(B)	*******	*******	*******
A	*******	*******	*******
AGE [illegible] AT EXAM			
MEN			
B	*******	0.001	0.002
SE(B)	*******	0.004	0.004
A	*******	2.575	-2.1[illegible]
WOMEN			
B	*******	0.015	0.015
SE(B)	*******	0.015	0.015
A	*******	4.210	4.210
AGE 55 64 AT EXAM			
MEN			
B	*******	-0.005	-0.002
SE(B)	*******	0.005	0.005
A	*******	-1.836	2.140
WOMEN			
B	*******	0.024	0.051
SE(B)	*******	0.006	0.006
A	*******	-3.049	-3.592

[illegible]

TABLE 21-10-6

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM. FRAMINGHAM STUDY, 10-YEAR FOLLOW-UP

EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER WEEK)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	6922	6	7		12496	38	30		9158	7[illegible]	80		2878	32	111	
NONE	1016	2	20	12.0	1824	7	38	29.4	1902	21	110	83.9	680	22	176	137.7
000-009	2294	2	9	11.3	3060	10	33	29.5	2322	14	60	83.5	792	7	88	134.6
010-019	1030	1	10	9.3	1502	3	23	29.8	806	6	74	81.9	244	2	82	123.7
020-029	604	0	0	7.7	852	1	12	30.0	534	4	75	80.4	192	2	104	112.9
030-039	436	0	0	6.5	898	0	0	30.3	632	5	79	79.2	216	5	231	105.4
040-049	386	0	0	5.2	622	2	32	30.6	486	4	82	77.6	132	2	152	95.3
050-059	160	1	63	4.3	274	3	109	30.6	192	0	0	76.2	76	0	0	88.1
060-069	266	0	0	3.1	518	1	19	31.1	382	6	157	75.0	114	1	88	81.9
070-079	140	0	0	2.9	256	0	0	31.4	164	2	122	73.5	54	0	0	73.9
080-457	570	0	0	1.4	1010	5	50	32.8	660	3	45	67.9	244	1	41	51.9
UNKNOWN	2020	0			1878	6			1078	8			134	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	2	2		15650	5	3		11938	23	19		3978	20	50	
NONE	2526	0	0	******	4634	3	6	5.3	5172	11	21	16.1	2086	11	53	47.6
000-009	3746	0	0	******	5422	2	4	4.2	3614	6	17	18.6	1100	5	45	48.6
010-019	852	0	0	******	1052	0	0	1.6	480	0	0	20.6	168	0	0	52.8
020-029	458	0	0	******	636	0	0	0.6	398	0	0	22.4	156	0	0	56.8
030-039	384	0	0	******	738	0	0	0.3	500	2	40	24.3	152	2	132	61.0
040-049	136	0	0	******	268	0	0	0.1	180	0	0	27.3	60	0	0	66.5
050-059	66	0	0	******	86	0	0	0.0	62	0	0	29.6	14	0	0	72.5
060-069	204	1	49	******	324	0	0	0.0	120	1	83	32.3	30	1	333	77.7
070-079	46	0	0	******	94	0	0	0.0	34	0	0	36.9	16	0	0	86.7
080-457	94	1	106	******	186	0	0	0.0	130	1	77	50.6	12	0	0	123.8
UNKNOWN	2422	0			2186	0			1248	2			184	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
b	-0.019	******	0.001	-0.054	-0.002	0.010	-0.009	0.008
SE(b)	0.022	******	0.004	0.111	0.004	0.009	0.007	0.013
t	-0.030	******	-5.130	-6.840	-4.071	-5.617	-3.564	4.644

TABLE 13-11-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	6	7		12496	38	30		9158	73	80		2878	32	111	
NONE	2774	0	0	0.9	4650	8	17	22.6	4368	25	57	62.9	1666	19	114	100.3
UNDER 20	1392	1	7	2.4	1794	8	45	27.2	1528	14	92	75.8	564	4	71	114.5
20	2416	1	4	6.4	2972	11	37	32.8	1804	19	105	91.3	380	3	79	130.6
OVER 20	2288	4	17	16.8	3008	10	33	39.5	1408	13	92	110.0	260	6	231	148.9
UNKNOWN	52	0			72	1			50	2			8	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	2	2		15650	5	3		11938	23	19		3978	20	50	
NONE	5018	0	0	0.1	8884	1	1	0.9	8554	17	20	20.4	3176	17	54	54.4
UNDER 20	3494	0	0	0.5	3700	1	3	2.6	2068	4	19	17.8	556	2	36	26.3
20	1736	1	6	3.1	2164	1	5	7.2	876	2	23	15.5	166	0	0	12.7
OVER 20	628	1	16	19.9	840	2	24	19.6	396	0	0	13.5	62	0	0	6.1
UNKNOWN	58	0			62	0			44	0			18	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.968	1.854	0.187	1.011	0.190	-0.137	0.135	-0.732
SE(B)	0.519	0.966	0.137	0.416	0.101	0.300	0.167	0.642
A	-8.593	-11.085	-5.396	-8.571	-4.364	-5.499	-3.889	-4.509

TABLE 13-12-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: ALBUMIN IN URINE

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	28	22	16	32	25	18	1095	1127	1083	5	5	5	5	4	5
NO	823	869	878	24	21	15	29	24	17	992	1082	1033	4	4	5	4	4	5
POSSIBLE	2	0	3	0	0	0	0	****	0	7	1	5	1	0	0	143	0	0
DEFINITE	21	7	12	1	0	1	48	0	83	72	40	42	0	1	0	0	25	0
UNKNOWN	19	7	4	3	1	0				24	4	3	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	72	56	48	98	75	65	883	912	945	18	14	13	20	15	14
NO	697	738	724	67	55	47	96	75	65	805	873	899	16	13	13	20	15	14
POSSIBLE	1	0	0	0	0	0	0	****	****	7	4	6	0	0	0	0	0	0
DEFINITE	24	10	10	4	1	1	167	100	100	61	33	39	2	1	0	33	30	0
UNKNOWN	9	2	0	1	0	0				10	2	1	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	45	63	60	129	126	102	437	613	739	26	32	28	59	52	38
NO	326	480	563	39	59	53	120	123	94	405	588	706	20	27	25	49	46	35
POSSIBLE	1	1	6	0	0	3	0	0	500	0	1	2	0	0	0	****	0	0
DEFINITE	14	15	18	3	3	3	214	200	167	24	20	28	5	4	3	208	200	107
UNKNOWN	7	3	2	3	1	1				8	4	3	1	1	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.236*******		0.798
SE(B)	0.527 ******		0.545
A	-3.507*******		-4.056
WOMEN			
B	0.197	0.965*******	
SE(B)	0.756	0.566 ******	
A	-5.395	-5.598*******	
AGE 45-54 AT EXAM			
MEN			
B	0.307	0.161	0.235
SE(B)	0.282	0.532	0.532
A	-2.242	-2.519	-2.668
WOMEN			
B	0.237	0.343*******	
SE(B)	0.386	0.532 ******	
A	-3.904	-4.195*******	
AGE 55-64 AT EXAM			
MEN			
B	0.332	0.274	0.503
SE(B)	0.338	0.331	0.284
A	-1.998	-1.967	-2.242
WOMEN			
B	0.811	0.817	0.582
SE(B)	0.276	0.297	0.323
A	-2.958	-3.036	-3.307

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 13-12-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: ALBUMIN IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	6	7		12496	38	30		9158	73	80		2878	32	111	
NO	8678	6	7	******	12204	37	30	30.3	8688	66	76	76.1	2676	26	97	98.2
POSSIBLE	20	0	0	******	42	0	0	36.1	82	1	122	104.2	26	1	385	175.6
DEFINITE	148	0	0	******	214	1	47	43.2	356	5	140	142.5	170	5	294	310.1
UNKNOWN	76	0			36	0			32	1			6	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	2	2		15650	5	3		11938	23	19		3978	20	50	
NO	10354	2	2	******	14938	5	3	******	11396	22	19	19.7	3776	18	48	47.3
POSSIBLE	88	0	0	******	132	0	0	******	120	1	83	14.6	38	0	0	76.6
DEFINITE	420	0	0	******	542	0	0	******	382	0	0	10.8	150	2	133	123.6
UNKNOWN	72	0			38	0			40	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.179	*******	0.321	-0.301	0.597	0.488
SE(B)	******	******	0.519	******	0.230	0.750	0.244	0.385
A	*******	*******	-5.101	*******	-4.170	-5.534	-3.911	-4.652

TABLE 13-13-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: SUGAR IN URINE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	BB3	897	28	22	16	32	25	18	1095	1127	1083	5	5	5	5	4	5	
																			MEN
NO	825	872	887	24	21	16	29	24	18	1059	1119	1075	4	5	5	4	4	5	B 0.104**********
POSSIBLE	13	2	0	1	0	0	77	0	****	7	0	0	0	0	0	0	****	****	SE(B) 0.821 ****** ******
DEFINITE	8	2	6	0	0	0	0	0	0	5	4	5	1	0	0	200	0	0	A -3.496**********
UNKNOWN	19	7	4	3	1	0				24	4	3	0	0	0				WOMEN
																			B 2.044**********
																			SE(B) 0.624 ****** ******
																			A -5.600**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	731	750	734	72	56	48	98	75	65	B83	912	945	18	14	13	20	15	14	
																			MEN
NO	690	723	710	67	53	47	97	73	66	B53	900	931	18	14	13	21	16	14	B 0.367 0.483 -0.123
POSSIBLE	20	11	11	1	0	0	50	0	0	11	1	2	0	0	0	0	0	0	SE(B) 0.336 0.343 0.568
DEFINITE	12	14	13	3	3	1	250	214	77	9	9	11	0	0	0	0	0	0	A -2.244 -2.550 -2.654
UNKNOWN	9	2	0	1	0	0				10	2	1	0	0	0				WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	348	499	589	45	63	60	129	126	102	437	613	739	26	32	2B	59	52	3B	
																			MEN
NO	326	483	566	38	56	52	117	116	92	415	592	721	22	29	25	53	49	35	B 0.525 0.966 0.922
POSSIBLE	9	2	4	3	1	0	333	500	0	5	4	1	1	0	0	200	0	0	SE(B) 0.416 0.306 0.256
DEFINITE	6	11	17	1	5	7	167	455	412	9	13	14	2	2	3	222	154	214	A -2.006 -2.027 -2.300
UNKNOWN	7	3	2	3	1	1				8	4	3	1	1	0				WOMEN
																			B 0.873 0.582 1.005
																			SE(B) 0.391 0.402 0.342
																			A -2.B73 -2.972 -3.328

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 3.14-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HEART ENLARGEMENT BY X-RA

	- M E N -									- W O M E N -									LOGISTIC PARAMETERS		
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000					
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3		1	2	3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM			
TOTAL	865	883	897	28	2	6	32	5	8	1095	1127	1083	5	5	5	5	4	5				
																			MEN			
NO	[illegible]	781	816	2	8	3	29	3	6	[illegible]	1017	1013	3	3	3	3	3	3	B	0.520	0.442	0.445
POSSIBLE	[illegible]	35	43	1	0	2	38	0	7	56	39	36	1	0	0	18	0	0	SE(B)	0.255	0.297	0.419
DEFINITE	[illegible]	65	37	5	4	1	78	2	7	82	70	33	1	2	2	12	29	[illegible]	A	-3.533	-3.732	-4.089
UNKNOWN	4	2	1	0	0	0				4	1	1	0	0	0				WOMEN			
																			B	0.765	1.132	1.515
																			SE(B)	0.517	0.477	0.487
																			A	-5.664	-5.881	-5.896
AGE [illegible] AT EXAM																			AGE 45-54 AT EXAM			
TOTAL	741	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15	[illegible]				
																			MEN			
NO	[illegible]	650	647	54	45	7	93	69	57	[illegible]	688	763	9	10	10	14	15	13	B	0.089	[illegible]	[illegible].600
POSSIBLE	[illegible]	41	42	4	5	3	167	22	71	[illegible]	79	100	4	1	0	66	13	0	SE(B)	0.158	0.211	0.210
DEFINITE	124	59	45	13	6	8	105	102	78	85	145	82	5	3	3	27	21	37	A	-2.259	-2.583	-2.819
UNKNOWN	4	0	0	1	0	0				6	0	0	0	0	0				WOMEN			
																			B	[illegible]	[illegible]	[illegible].393
																			SE(B)	0.256	0.333	0.370
																			A	-4.101	-4.233	-4.415
AGE 55-64 AT EXAM																			AGE 55-[illegible] AT EXAM			
TOTAL	[illegible]	[illegible]	[illegible]	4	[illegible]	[illegible]				[illegible]	[illegible]						[illegible]	[illegible]				
																			MEN			
NO	247	379	475	29	38	36	16	00	76	253	366	471	8	11	7	32	30	15	B	[illegible]	[illegible]	[illegible].665
POSSIBLE	7	45	51	0	7	0	1	56	96	4	80	116	2	4	5	59	50	43	SE(B)	[illegible]	[illegible]	[illegible].166
DEFINITE	[illegible]	75	63	16	8	4	198	40	22	[illegible]	157	152	6	7	6	110	102	105	A	-2.075	-2.196	2.461
UNKNOWN	1	0	0	0	0	0				4	0	0	0	0	0				WOMEN			
																			B	[illegible]	[illegible]	[illegible].022
																			SE(B)	[illegible]	[illegible]	[illegible].227
																			A	-3.423	-3.493	-4.176

[illegible] 3.

[illegible]

AVERAGE ANNUAL [illegible] RATE FOR EVENT PER 10,000 POPULATION AT [illegible] AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM [illegible]
CHARACTERISTIC: HEART [illegible] BY [illegible]

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 55-64 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	6422	6	[illegible]		[illegible]	[illegible]	0		[illegible]	[illegible]	80		2878	2	11	
NO	5056	5	6	5.9	5556	1	0	0.5	5978	8	54	51.5	846	4	76	32.2
POSSIBLE	372	0	0	10.5	530	5	5	0.7	974	6	42	67.4	448	8	79	25.8
DEFINITE	454	1	5	16.5	560	1	5	1.6	208	5	40	22.0	584	0	11	91.5
UNKNOWN	20	[illegible]			[illegible]	[illegible]			2	[illegible]			0	0		

[illegible]

	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		1832	6	32	.5
POSSIBLE	[illegible]	0	0	4.2	[illegible]	[illegible]	[illegible]	4.[illegible]	[illegible]	5	[illegible]	21.4	726	1	14	35.9
DEFINITE	416	[illegible]	[illegible]	17.4	1564	2	3	0.7	[illegible]	9	37	46.3	1370	3	5	36.1
UNKNOWN	24	0			5	[illegible]			[illegible]	0			0	0		

[illegible]

	[illegible]								AGE [illegible]	
	EN	OMEN	EN	OMEN	EN	OMEN	MEN	OMEN
	0.57[illegible]						0.4[illegible]	[illegible]
[illegible]	0.584	0.737	0.[illegible]	0.492	0.129	0.236	0.199	0.267
A	-5.733	-3.000	5.[illegible]	7.773	4.570	5.227	-4.091	5.274

TABLE 3.14-6

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HEART ENLARGEMENT BY X-RA

	- MEN -									- WOMEN -											
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																					
TOTAL	865	883	897	23	2	6	32	5	8	1095	1127	1083	5	6	5	5	4	5			
NO	[illegible]	781	816	[illegible]	18	[illegible]	29	[illegible]	6	[illegible]	1017	1013	3	3	3	3	3	3			
POSSIBLE	25	35	43	1	0	2	38	0	[illegible]	56	39	36	1	0	0	18	0	0			
DEFINITE	[illegible]	65	37	5	4	1	78	2	7	82	70	33	1	2	2	12	29	61			
UNKNOWN	4	2	1	0	0	0				4	1	1	0	0	0						
AGE 45-54 AT EXAM																					
TOTAL	741	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	943	[illegible]	[illegible]	[illegible]	[illegible]	15	[illegible]			
NO	[illegible]	650	647	54	45	7	93	69	57	[illegible]	688	763	9	10	10	14	15	13			
POSSIBLE	14	41	42	4	5	3	167	22	71	[illegible]	79	100	4	1	0	46	13	0			
DEFINITE	124	59	45	13	6	8	105	02	78	35	145	82	5	3	3	27	21	37			
UNKNOWN	4	0	0	1	0	0				6	0	0	0	0	0						
AGE 55-64 AT EXAM																					
TOTAL	[illegible]	99	[illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
NO	247	379	475	29	38	36	16	00	76	253	366	471	8	11	7	32	30	15			
POSSIBLE	7	45	51	0	7	0	0	56	96	4	80	116	2	4	5	59	50	43			
DEFINITE	[illegible]	75	63	16	8	4	198	40	22	[illegible]	157	152	6	7	5	110	102	105			
UNKNOWN	1	0	0	0	0	0				4	0	0	0	0	0						

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.520	0.442	0.445
SE(B)	0.255	0.297	0.419
A	-3.533	-3.782	-4.089
WOMEN			
B	0.765	1.132	1.515
SE(B)	0.517	0.477	0.487
A	-5.664	-5.881	-5.896
AGE 45-54 AT EXAM			
MEN			
B	0.089	[illegible]	0.600
SE(B)	0.158	0.211	0.210
A	-2.259	-2.583	-2.819
WOMEN			
B	[illegible]	[illegible]	.393
SE(B)	0.256	0.333	0.370
A	-4.101	-4.233	-4.415
AGE 55-64 AT EXAM			
MEN			
B	[illegible]	[illegible]	.665
SE(B)	[illegible]	[illegible]	.166
A	-2.075	-2.156	2.461
WOMEN			
B	0 64	[illegible]	022
SE(B)	0 22	[illegible]	.127
A	-3.423	-3.493	-4.176

FIG. [illegible]

AVERAGE ANNUAL [illegible] RATE FOR EVENT PER 10,000 POPULATION AT [illegible] AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH [illegible]
CHARACTERISTIC: HEART [illegible] BY [illegible]

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8422	6	[illegible]		[illegible]	[illegible]	0		[illegible]	[illegible]	80		2878	12	11	
NO	5096	5	6	5.9	0556	1	0	0.5	5916	8	54	11.[illegible]	846	4	76	32.2
POSSIBLE	372	0	0	10.5	[illegible]	5	5	0.1	974	6	[illegible]	107.4	448	8	79	25.8
DEFINITE	454	1	5	18.5	560	1	5	1.6	208	5	40	22.0	584	0	[illegible]1	91.5
UNKNOWN	20	[illegible]			[illegible]	[illegible]			2	[illegible]			0	0		

	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
POSSIBLE	[illegible]	0	0	4.2	[illegible]	[illegible]	[illegible]	4.[illegible]	[illegible]	5	[illegible]	21.4	726	1	14	[illegible]5.9
DEFINITE	416	[illegible]	[illegible]	17.4	1564	2	3	0.7	2459	9	37	46.3	1370	3	5	36.1
UNKNOWN	24	0			5	[illegible]			[illegible]	0			0	0		

	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	AGE [illegible] MEN	AGE [illegible] WOMEN
	0.57[illegible]	[illegible]					[illegible]	[illegible]
[illegible]	0.584	0.737	0.[illegible]	0.492	0.124	0.236	0.199	0.267
4	-6.733	-3.000	5.495	7.773	4.570	5.227	-4.091	5.274

TABLE 13-15-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	6	7		12496	38	30		9158	73	80		2878	32	111	
NO	8596	6	7	******	11682	30	26	24.9	8084	38	47	47.3	2376	15	63	64.5
POSSIBLE	258	0	0	******	542	2	37	69.1	590	10	169	161.4	244	5	205	179.0
DEFINITE	68	0	0	******	272	6	221	188.5	484	25	517	521.5	258	12	465	477.4
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	2	2		15650	5	3		11938	23	19		3978	20	50	
NO	10742	1	1	0.9	15120	5	3	******	10786	17	16	16.6	3360	10	30	29.6
POSSIBLE	136	0	0	12.0	384	0	0	******	698	4	57	32.4	348	3	86	88.4
DEFINITE	56	1	179	164.0	146	0	0	******	454	2	44	63.2	270	7	259	257.8
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	*******	2.645	1.028	*******	1.250	0.674	1.045	1.105
SE(B)	******	0.744	0.232	******	0.132	0.304	0.197	0.250
A	*******	-8.674	-5.296	*******	-4.651	-5.706	-4.338	-5.122

TABLE 13-16-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	28	22	16	32	25	18	1095	1127	1083	5	5	5	5	4	5
NO	845	862	871	27	20	16	32	23	18	1077	1111	1070	4	5	5	4	5	5
YES	20	21	26	1	2	0	50	95	0	18	16	13	1	0	0	56	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	72	56	48	98	75	65	883	912	945	18	14	13	20	15	14
NO	704	729	707	63	53	45	89	73	64	861	875	912	16	13	12	19	15	13
YES	27	21	27	9	3	3	333	143	111	22	37	33	2	1	1	91	27	30
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	45	63	60	129	126	102	437	613	739	26	32	28	59	52	38
NO	336	475	553	41	56	50	122	118	90	423	579	688	22	25	22	52	43	32
YES	12	24	36	4	7	10	333	292	278	14	34	51	4	7	6	286	206	118
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.467	1.489*******	
SE(B)	1.044	0.777 ******	
A	-3.411	-3.740*******	
WOMEN			
B	2.759**********		
SE(B)	1.144 ******	******	
A	-5.592**********		
AGE 45-54 AT EXAM			
MEN			
B	1.627	0.754	0.609
SE(B)	0.429	0.640	0.631
A	-2.320	-2.546	-2.689
WOMEN			
B	1.664	0.611	0.852
SE(B)	0.783	1.052	1.056
A	-3.967	-4.194	-4.317
AGE 55-64 AT EXAM			
MEN			
B	1.280	1.125	1.353
SE(B)	0.635	0.471	0.401
A	-1.973	-2.013	-2.309
WOMEN			
B	1.987	1.748	1.395
SE(B)	0.631	0.471	0.486
A	-2.903	-3.098	-3.410

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 13-16-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	6	7		12496	38	30		9158	73	80		2878	32	111	
NO	8684	6	7	6.9	11916	35	29	29.4	8546	61	71	71.4	2602	25	96	96.1
YES	238	0	0	0.0	580	3	52	51.7	612	12	196	196.1	276	7	254	253.6
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	2	2		15650	5	3		11938	23	19		3978	20	50	
NO	10738	2	2	1.9	15106	3	2	2.0	11204	19	17	17.0	3620	14	39	38.7
YES	196	0	0	0.0	544	2	37	36.8	734	4	54	54.5	358	6	168	167.6
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.570	2.925	1.036	1.175	1.003	1.493
SE(B)	******	******	0.605	0.915	0.322	0.553	0.437	0.494
A	*******	*******	-5.131	-7.831	-4.235	-5.683	-3.933	-4.854

TABLE 13-17-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: DIABETES MELLITUS

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	883	897	28	22	16	32	25	18	1095	1127	1083	5	5	5	5	4	5	
																			MEN
NO	853	873	887	28	22	16	33	25	18	1087	1121	1077	4	4	4	4	4	4	B**********
YES	12	10	10	0	0	0	0	0	0	8	6	6	1	1	1	125	167	167	SE(B)****** ****** ******
																			A**********
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 3.655 4.023 3.982
																			SE(B) 1.181 1.205 1.205
																			A -5.601 -5.632 -5.592
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	731	750	734	72	56	48	98	75	65	883	912	945	18	14	13	20	15	14	
																			MEN
NO	708	724	711	66	51	46	93	70	65	861	897	922	15	12	11	17	13	12	B 1.233 1.145 0.320
YES	23	26	23	6	5	2	261	192	87	22	15	23	3	2	2	136	133	87	SE(B) 0.492 0.518 0.756
																			A -2.275 -2.580 -2.671
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 2.187 2.429 2.065
																			SE(B) 0.674 0.813 0.800
																			A -4.032 -4.301 -4.417
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	348	499	589	45	63	60	129	126	102	437	613	739	26	32	28	59	52	38	
																			MEN
NO	333	479	563	41	58	52	123	121	92	424	586	708	23	26	22	54	44	31	B 0.952 0.884 1.474
YES	15	20	26	4	5	8	267	250	308	13	27	31	3	6	6	231	222	194	SE(B) 0.607 0.535 0.449
																			A -1.963 -1.982 -2.285
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 1.654 1.817 2.013
																			SE(B) 0.692 0.505 0.504
																			A -2.858 -3.070 -3.440

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 3-19 A

INCIDENCE OF EVENT AFTER SPECIFIED EXAMS, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HYPERTENSION

	MEN									WOMEN									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	883	897	28	2	4	32	5	5	1095	1127	1083	5	5	5	5	4	5	
																			MEN
NO	721	508	601	12	2	4	25	5	7	709	874	871	2	2	2	3	2	2	B 0.360 0.572 1.012
BORDER	55	55	31	1	9	8	31	4	8	91	137	69	3	3	2	0	16	2	SE(B) 0.260 0.375 0.310
DEFINITE	29	109	84	7	5	4	56	6	8	95	56	43	0	0	1	0	0	3	A -3.685 -4.065 -4.701
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 0.343 0.704 1.225
																			SE(B) 0.618 0.584 0.554
																			A -5.560 -5.712 -5.952
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	731	750	734	72	56	48	98	75	65	833	912	945	18	14	13	22	15	14	
																			MEN
NO	239	374	399	12	19	19	42	51	48	310	419	514	1	2	2	3	5	4	B 0.698 0.443 0.435
BORDER	170	243	91	32	2	7	19	1	77	63	95	153	0	2	7	28	23	7	SE(B) 0.164 0.175 0.188
DEFINITE	172	133	114	28	5	2	163	38	175	210	198	68	7	5	4	33	27	26	A -2.920 -2.967 -2.973
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 0.808 0.751 0.797
																			SE(B) 0.333 0.344 0.342
																			A -4.769 -4.894 -4.977
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	343	499	583	45	53	60	29	24	32	437	613	732	25	22	29	59	52	39	
																			MEN
NO	124	210	312	8	18	19	65	52	33	102	161	257	2	2	5	20	17	12	B 0.733 0.329 0.557
BORDER	39	68	77	16	0	2	1	39	34	78	35	253	7	1	9	39	47	34	SE(B) 0.216 0.371 0.169
DEFINITE	39	12	112	21	3	9	28	22	36	157	213	222	16	19	5	62	87	30	A -2.454 -2.473 -2.632
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 0.775 0.852 0.864
																			SE(B) 0.203 0.238 0.272
																			A 3.726 3.032 4.284

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 33-18-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CORONARY HEART DISEASE
CHARACTERISTIC: HYPERTENSION

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	3922	5	7		12696	33	9		9159	73	80		2879	2	11	
NO	5230	4	8	9.2	6458	7	10	8.7	6128	25	51	58.7	1139	8	70	66.5
BORDER	2426	2	8	5.1	938	1	19	33.4	942	3	78	83.0	964	1	83	11.5
DEFINITE	1019	0	0	3.2	200	4	54	59.5	2568	5	21	17.1	676	3	92	85.9
UNKNOWN	0	0			1	0			6	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	2	2		13650	5	3		11939	23	19		3978	20	50	
NO	9339	1	1	2.2	8654	2	2	3.2	5182	3	7	5.1	902	2	22	7.2
BORDER	1252	0	0	2.0	4526	3	7	3.2	4296	4	33	19.1	1530	5	32	47.8
DEFINITE	343	1	15	11.1	2450	0	0	3.2	2462	6	17	25.7	1516	3	46	82.8
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	-0.440	1.290	0.382	0.005	0.252	0.301	0.526	0.793
SE(B)	0.710	0.845	0.260	0.603	0.135	0.264	0.230	0.354
A	-6.412	-8.621	5.595	7.352	4.478	5.866	-4.207	-5.670

TABLE 14-1-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	10	9	6	12	10	7	1095	1127	1083	11	8	9	10	7	8
074-109	35	72	92	0	0	0	0	0	0	102	204	248	1	1	2	10	5	8
110-119	116	163	192	1	2	2	9	12	10	234	311	312	1	1	2	4	3	6
120-129	185	219	247	2	1	0	11	5	0	280	268	263	1	1	1	4	4	4
130-139	237	207	186	1	1	1	4	5	5	212	180	138	2	2	1	9	11	7
140-149	156	127	101	1	0	0	6	0	0	120	83	67	1	1	0	8	12	0
150-159	56	49	38	2	1	1	36	20	26	68	43	28	3	1	1	44	23	36
160-169	41	22	21	1	3	1	24	136	48	46	17	14	0	1	1	0	59	71
170-179	24	13	10	2	0	0	83	0	0	18	10	6	0	0	1	0	0	167
180-189	7	6	8	0	0	0	0	0	0	7	8	2	2	0	0	286	0	0
190-300	8	5	2	0	1	1	0	200	500	8	3	5	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	34	27	20	47	36	27	883	912	945	32	23	14	36	25	15
074-109	23	49	53	0	0	1	0	0	19	23	50	104	1	0	2	43	0	19
110-119	86	122	138	1	2	2	12	16	14	66	129	165	0	3	0	0	23	0
120-129	149	164	166	5	4	4	34	24	24	142	156	176	6	1	2	42	6	11
130-139	141	167	146	5	6	2	35	36	14	177	182	173	1	1	3	6	5	17
140-149	127	111	109	3	2	1	24	18	9	134	129	104	0	8	0	0	62	0
150-159	77	61	54	5	3	5	65	49	93	110	96	85	3	1	1	27	10	12
160-169	54	33	32	6	5	1	111	152	31	79	64	51	2	3	1	25	47	20
170-179	31	15	18	3	1	1	97	67	56	56	32	40	8	1	0	143	31	0
180-189	18	12	7	3	0	1	167	0	143	42	34	21	3	1	2	71	29	95
190-300	25	16	11	3	4	2	120	250	182	54	40	26	8	4	3	148	100	115
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	23	30	28	66	60	48	437	613	739	26	34	40	59	55	54
074-109	10	25	48	0	4	2	0	160	42	13	17	28	1	1	2	77	59	71
110-119	24	54	83	1	0	1	42	0	12	17	38	56	0	1	1	0	26	18
120-129	54	82	110	2	1	4	37	12	36	41	64	111	2	0	1	49	0	9
130-139	66	106	113	3	7	3	45	66	27	67	86	127	1	3	6	15	35	47
140-149	60	71	66	6	1	4	100	14	61	61	82	93	1	3	6	16	37	65
150-159	52	53	64	3	5	2	58	94	31	66	104	90	7	6	3	106	58	33
160-169	26	41	39	0	3	3	0	73	77	44	70	65	3	5	4	68	71	62
170-179	23	20	17	1	2	0	43	100	0	45	50	60	1	0	5	22	0	83
180-189	11	15	17	1	1	3	91	67	176	26	35	45	0	4	1	0	114	22
190-300	22	32	32	6	6	6	273	188	188	57	67	64	10	11	11	175	164	172
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.032	0.049	0.050
SE(B)	0.014	0.014	0.014
A	-8.897	-11.283	-11.808
WOMEN			
B	0.026	0.023	0.025
SE(B)	0.011	0.013	0.014
A	-8.074	-7.919	-7.841
AGE 45-54 AT EXAM			
MEN			
B	0.026	0.030	0.028
SE(B)	0.007	0.007	0.010
A	-6.774	-7.485	-7.467
WOMEN			
B	0.024	0.019	0.022
SE(B)	0.005	0.005	0.008
A	-7.108	-6.514	-7.382
AGE 55-64 AT EXAM			
MEN			
B	0.017	0.021	0.021
SE(B)	0.007	0.006	0.006
A	-5.186	-5.806	-6.066
WOMEN			
B	0.017	0.023	0.019
SE(B)	0.006	0.006	0.005
A	-5.533	-6.562	-5.809

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 14-1-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, SYSTOLIC (MM HG)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	3	3		12496	14	11		9158	34	37		2878	18	63	
074-109	720	0	0	******	766	0	0	3.2	528	3	57	14.0	142	2	141	80.4
110-119	1708	0	0	******	2092	2	10	4.5	1124	1	9	17.7	246	1	41	74.4
120-129	2300	0	0	******	2698	1	4	6.1	1646	8	49	21.9	402	2	50	70.5
130-139	2024	1	5	******	2696	2	7	8.5	1740	3	17	27.4	542	2	37	66.0
140-149	1162	0	0	******	1790	3	17	11.7	1374	0	0	34.1	474	6	127	62.2
150-159	518	1	19	******	1110	3	27	16.2	976	2	20	42.6	362	1	28	58.7
160-169	248	1	40	******	606	0	0	22.1	656	5	76	52.5	248	3	121	55.3
170-179	138	0	0	******	334	0	0	30.2	430	1	23	65.2	142	0	0	52.0
180-189	64	0	0	******	202	0	0	42.7	274	4	146	80.2	126	0	0	48.7
190-300	40	0	0	******	202	3	149	88.6	410	7	171	137.4	194	1	52	42.5
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	3	3		15650	15	10		11938	24	20		3978	29	73	
074-109	1992	1	5	******	1390	1	7	3.2	444	2	45	13.7	72	0	0	10.3
110-119	2884	1	3	******	2668	1	4	4.3	1060	2	19	15.0	212	0	0	14.5
120-129	2638	1	4	******	3066	2	7	5.5	1586	3	19	16.2	324	0	0	19.3
130-139	1730	0	0	******	3042	0	0	7.1	1956	3	15	17.6	540	2	37	26.7
140-149	864	0	0	******	1954	1	5	9.2	1742	2	11	19.0	628	5	80	35.6
150-159	436	0	0	******	1384	3	22	11.8	1592	1	6	20.6	580	3	52	48.0
160-169	196	0	0	******	796	1	13	15.3	1158	1	9	22.2	498	4	80	64.1
170-179	94	0	0	******	526	1	19	19.8	848	3	35	24.1	390	1	26	86.8
180-189	56	0	0	******	394	1	25	25.5	642	3	47	26.0	288	2	69	117.0
190-300	44	0	0	******	430	4	93	67.0	910	4	44	32.1	446	12	269	260.0
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.033	0.026	0.022	0.008	-0.006	0.031
SE(B)	******	******	0.009	0.006	0.005	0.007	0.010	0.006
A	*******	*******	-10.754	-10.017	-8.178	-6.712	-3.482	-9.337

TABLE 14-2-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD PRESSURE, FIRST EXAMINER, DIASTOLIC (MM HG)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	10	9	6	12	10	7	1095	1127	1083	11	8	9	10	7	8
020-069	44	80	94	1	1	1	23	13	11	104	205	230	1	1	2	10	5	9
070-074	110	137	153	3	3	2	27	22	13	198	252	263	1	1	1	5	4	4
075-079	71	93	117	1	0	1	14	0	9	136	154	188	0	1	0	0	6	0
080-084	195	210	186	1	1	0	5	5	0	276	248	179	1	1	3	4	4	17
085-089	113	107	130	0	0	0	0	0	0	102	107	97	2	1	1	20	9	10
090-094	156	115	104	1	0	0	6	0	0	144	76	65	1	1	0	7	13	0
095-099	62	65	45	1	1	1	16	15	22	51	35	29	2	0	1	39	0	34
100-104	63	34	36	1	1	0	16	29	0	50	27	19	1	0	0	20	0	0
105-109	11	21	17	1	1	0	91	48	0	11	13	5	1	2	1	91	154	200
110-160	40	21	15	0	1	1	0	48	67	23	10	8	1	0	0	43	0	0
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	34	27	20	47	36	27	883	912	945	32	23	14	36	25	15
020-069	21	59	66	0	3	4	0	51	61	21	63	99	0	2	3	0	32	30
070-074	70	77	97	1	1	1	14	13	10	76	125	132	2	3	0	26	24	0
075-079	59	93	95	1	2	1	17	22	11	82	103	136	1	0	2	12	0	15
080-084	176	146	146	6	2	1	34	14	7	192	187	205	8	5	0	42	27	0
085-089	76	103	101	2	3	3	26	29	30	100	113	123	2	2	1	20	18	8
090-094	131	110	89	6	5	2	46	45	22	162	130	94	3	1	4	19	8	43
095-099	57	60	61	4	2	2	70	33	33	71	55	59	2	3	0	28	55	0
100-104	72	56	33	6	5	4	83	89	121	77	53	40	2	2	0	26	38	0
105-109	23	17	18	2	1	1	87	59	56	27	26	17	3	3	0	111	115	0
110-160	46	29	28	6	3	1	130	103	36	75	57	40	9	2	4	120	35	100
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	23	30	28	66	60	48	437	613	739	26	34	40	59	55	54
020-069	19	42	60	1	3	4	53	71	67	13	31	52	1	2	7	77	65	135
070-074	34	66	95	3	3	4	88	45	42	36	68	82	4	4	3	111	59	37
075-079	40	66	67	0	1	1	0	15	15	27	56	79	0	1	2	0	18	25
080-084	74	93	121	3	2	5	41	22	41	74	110	149	1	2	4	14	18	27
085-089	37	45	68	1	3	0	27	67	0	55	73	103	4	4	7	73	55	68
090-094	56	74	65	3	7	4	54	95	62	82	91	103	3	5	0	37	55	0
095-099	23	31	40	4	4	0	174	129	0	35	60	60	1	3	5	29	50	83
100-104	28	36	20	4	1	0	143	28	0	51	51	41	3	1	1	59	20	24
105-109	7	10	19	0	0	1	0	0	53	12	23	26	1	2	3	83	87	115
110-160	30	36	34	4	6	9	133	167	265	52	50	44	8	10	8	154	200	182
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	-0.017	0.023	0.007
SE(B)	0.028	0.028	0.035
A	-3.004	-6.554	-5.602
WOMEN			
B	0.050	0.046	0.037
SE(B)	0.019	0.024	0.024
A	-8.841	-8.709	-7.674
AGE 45-54 AT EXAM			
MEN			
B	0.044	0.025	0.018
SE(B)	0.012	0.015	0.018
A	-7.068	-5.489	-5.102
WOMEN			
B	0.044	0.027	0.035
SE(B)	0.011	0.013	0.016
A	-7.412	-6.073	-7.253
AGE 55-64 AT EXAM			
MEN			
B	0.024	0.032	0.032
SE(B)	0.014	0.012	0.011
A	-4.803	-5.570	-5.754
WOMEN			
B	0.031	0.036	0.025
SE(B)	0.011	0.011	0.011
A	-5.713	-6.164	-5.055

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 14-3 A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM. FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CARDIOVASCULAR DISEASE. STAT[illegible] HEART [illegible]
CHARACTERISTIC: SERUM CHOLESTEROL (MG 100 ML)

	MEN									WOMEN									LOGISTIC PARAMETERS		
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000					
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM		
TOTAL	865	863	694	1[illegible]	9	8	12	0	7	1095	1127	1063	1	0	3	0	0	2			
[illegible]	[illegible]	73	[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	MEN		
19[illegible]	9[illegible]	100	116	[illegible]	9	0	0	0	0	133	288	137	[illegible]	1	0	0	0	0	B 0.003	0.005	0.000
205-[illegible]	5[illegible]	1[illegible]	141	1	1	1	17	[illegible]	7	85	133	135	2	1	2	24	7	5	SE(B) 0.009	0.007	0.010
220-234	1[illegible]8	144	[illegible]	0	2	0	0	14	0	98	[illegible]	131	1	0	1	0	0	8	A -5.345	5.151	5.284
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
250-264	5	7[illegible]	6	0	1	0	[illegible]	[illegible]	[illegible]	6	6	9[illegible]	0	0	1	[illegible]	[illegible]	[illegible]	WOMEN		
265-[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	B -0.001	0.003	0.007
280-[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	3	[illegible]	[illegible]	[illegible]	SE(B) 0.010	0.006	0.007
295-[illegible]	[illegible]	2[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	[illegible]	[illegible]	[illegible]	[illegible]	0	0	[illegible]	[illegible]	[illegible]	A -4.235	-5.457	-6.196
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]			
UNKNOWN	[illegible]	2[illegible]	[illegible]	[illegible]	1	1				42	[illegible]	[illegible]	3	0	0						
AGE 45-[illegible] AT EXAM																			45-[illegible] AT EXAM		
TOTAL	[illegible]	75[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	46	[illegible]	89	[illegible]	[illegible]	37	2[illegible]	14	36	[illegible]	[illegible]			
096-1[illegible]	77	97	91	1	5	4	13	62	44	74	102	109	2	3	1	27	29	9	MEN		
190-20[illegible]	59	55	54	3	5	3	51	93	56	47	91	97	0	0	0	0	0	0	B -0.001	-0.009	-0.001
205-219	91	111	151	2	2	2	39	18	13	95	116	116	2	3	3	36	25	25	SE(B) 0.006	0.006	0.007
2[illegible]-2[illegible]4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]	[illegible]	[illegible]	A -[illegible]	[illegible]	2.007
235-249	70	78	91	3	1	2	[illegible]	[illegible]	[illegible]	2	[illegible]	135	1	1	1	24	9	[illegible]			
250-264	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	32	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	3	[illegible]	37	31	WOMEN		
265-279	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	0	26	[illegible]	B 0.004	0.003	0.002
280-294	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	32	34	18	SE(B) 0.005	0.005	0.006
295-[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	167	[illegible]	0	A -4.401	-[illegible].273	-4.[illegible]
310-6[illegible]	[illegible]	[illegible]	[illegible]	0	0	0	[illegible]	0	0	35	66	[illegible]	[illegible]	[illegible]	1	26	15	[illegible]			
UNKNOWN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				415	30	[illegible]	10	[illegible]	0						
AGE 55-[illegible] AT EXAM																			AGE 55-64 AT EXAM		
TOTAL	148	499	589	23	30	25	16	60	48	437	623	739	[illegible]	34	40	59	95	54			
096-18[illegible]	52	90	105	4	2	5	77	78	47	16	51	35	[illegible]	2	5	[illegible]	65	[illegible]	MEN		
190-20[illegible]	32	69	57	3	2	1	94	31	18	20	42	45	0	5	4	0	119	82	B -0.001	0.001	0.001
207-[illegible]	31	73	[illegible]	[illegible]	4	4	[illegible]	55	47	23	49	[illegible]	4	[illegible]	2	182	20	31	SE(B) [illegible]	[illegible].035	0.005
220-234	[illegible]	[illegible]	[illegible]	1	1	5	[illegible]	[illegible]	[illegible]	47	46	91	2	9	8	43	92	82	A [illegible]	[illegible]	-3.166
235-249	30	51	[illegible]	3	5	[illegible]	[illegible]	98	45	2[illegible]	[illegible]	[illegible]	3	3	4	107	43	45			
250-264	13	60	[illegible]	2	3	5	111	53	67	4[illegible]	[illegible]	[illegible]	2	3	6	50	40	58	WOMEN		
265-27[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5	0	[illegible]	147	[illegible]	73	[illegible]	45	0	[illegible]	3	0	16	31	B -0.010	-0.007	-0.005
280-2[illegible]	[illegible]	24	[illegible]	1	1	2	91	42	65	27	43	53	1	2	2	50	42	36	SE(B) 0.006	[illegible].004	0.004
295-3[illegible]	[illegible]	2[illegible]	[illegible]	1	1	2	111	45	95	19	38	56	0	3	2	0	79	36	A -[illegible].432	[illegible]79	-1.[illegible]06
310-6[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5	4	35	36	[illegible]			
UNKNOWN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0				1[illegible]	[illegible]	[illegible]	1[illegible]	[illegible]	0						

* [illegible] OBSERVATIONS. 16 YEARS AFTER [illegible] 1, [illegible] AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3

TABLE 2.5-[illegible]

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM. FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: [illegible]
CHARACTERISTIC: SERUM CHOLESTEROL [illegible]

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED [illegible] AT EXAM				MEN AGED [illegible] AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	492[illegible]	3	[illegible]		[illegible]	14	11		[illegible]	34	31		2873	15	54	
096-1[illegible]	[illegible]	-	-		[illegible]	-	20	[illegible]	[illegible]	0	[illegible]	5[illegible].4	[illegible]			[illegible]
190-2[illegible]	[illegible]	0	0	******	1223	0	0	[illegible]	[illegible]	6	64	46.7	390	4	8	33.5
205-21[illegible]	1206	1	8	******	1762	1	5	[illegible]	1[illegible]6	4	34	41.5	372	3	32	32.5
220-2[illegible]	1390	0	0	******	1330	1	3	12.0	1[illegible]02	4	29	37.4	344	2	43	62.1
235-240	[illegible]	1	10	******	1584	[illegible]	[illegible]	[illegible]	[illegible]	3	6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
250-26[illegible]	[illegible]	0	0	[illegible]	14[illegible]6	7	[illegible]	[illegible]	[illegible]32	[illegible]	9	[illegible]	[illegible]4	0	[illegible]	[illegible]
265-27[illegible]	[illegible]	1	17	******	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5	62	27.1		1		[illegible]
280-29[illegible]	412	0	0	******	6[illegible]	1	14	[illegible]	[illegible]	0	0	24.[illegible]	[illegible]	3	[illegible]	[illegible]
295-30[illegible]	254	0	0	******	[illegible]	[illegible]	0	[illegible]	3[illegible]	1	3[illegible]	21.7	[illegible]	[illegible]	[illegible]	[illegible]
310-696	358	[illegible]	0	******	[illegible]	[illegible]	0	[illegible]	[illegible]	0	0	17.[illegible]	[illegible]	0	0	[illegible].0
UNKNOWN	[illegible]	0			[illegible]				[illegible]	1			[illegible]	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	3	3		10[illegible]3	13	10		11936	24	20		3978	29	73	
096-16[illegible]	2930	0	0	******	1438	0	0	5.9	490	1	20	25.0	122	5	10	210.0
190-204	1782	0	0	******	1462	1	7	0.6	616	1	16	23.7	172	4	[illegible]33	141.4
205-21[illegible]	1494	0	0	******	1312	2	11	7.2	924	4	43	[illegible]	278	2	72	118.4
220-2[illegible]	[illegible]52	1	7	******	[illegible]2	1	5	1.7	1424	2	14	[illegible]	436	2	46	98.4
235-24[illegible]	[illegible]	0	0	******	[illegible]	[illegible]	10	3.3	1374	3	22	[illegible]	904	3	20	61.4
250-2[illegible]	[illegible]	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4	25	[illegible]	[illegible]	3	[illegible]	[illegible]
265-27[illegible]	947	[illegible]	0	******	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	7	[illegible]	550	5	1	56.3
280-29[illegible]	372	0	0	******	[illegible]	[illegible]	1[illegible]	[illegible]	[illegible]	4	33	[illegible]	412	2	49	45.9
295-3[illegible]	185	0	0	******	[illegible]	[illegible]	[illegible]	11.2	[illegible]	1	11	[illegible]	[illegible]	0	0	36.2
310-[illegible]	187	1	55	******	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]
UNKNOWN	678	1			71	[illegible]			[illegible]	[illegible]			[illegible]	[illegible]		

LOGISTIC PARAMETERS

	AGE 35-[illegible] AT EXAM MEN	AGE 35-[illegible] AT EXAM WOMEN	AGE 45-[illegible] AT EXAM MEN	AGE 45-[illegible] AT EXAM WOMEN	55-[illegible] EXAM	55-[illegible] EXAM	65-[illegible] EXAM	65-[illegible] EXAM
B	******	******	-[illegible].0[illegible]	0.[illegible]	0.[illegible]7	0.032	0.031	0.013
SE(B)	******	******	0.007	0.003	0.034	0.033	0.033	0.103
P	******	******	-4.474	-7.0[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TABLE 14-4-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: HEMOGLOBIN (DECIGRAMS PER 100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	3	3		12496	14	11		9158	34	37		2878	18	63	
067-119	138	0	0	******	148	0	0	24.2	228	2	88	31.5	50	0	0	63.1
120-124	206	0	0	******	268	0	0	19.8	196	2	102	32.9	26	0	0	63.1
125-129	282	0	0	******	294	1	34	17.6	246	0	0	33.6	52	0	0	63.1
130-134	694	0	0	******	848	2	24	15.4	682	1	15	34.5	134	1	75	63.2
135-139	892	1	11	******	1076	2	19	13.6	850	1	12	35.3	262	2	76	63.2
140-144	1312	1	8	******	1758	2	11	12.1	1396	6	43	36.1	378	2	53	63.2
145-149	1574	1	6	******	2144	2	9	10.8	1586	6	38	36.9	454	3	66	63.2
150-154	1304	0	0	******	1914	1	5	9.5	1382	4	29	37.8	572	5	87	63.2
155-159	1000	0	0	******	1558	2	13	8.4	1168	4	34	38.7	414	3	72	63.2
160-216	980	0	0	******	1878	1	5	6.8	1196	7	59	40.4	508	2	39	63.2
UNKNOWN	540	0			610	1			228	1			28	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	3	3		15650	15	10		11938	24	20		3978	29	73	
067-119	1964	0	0	******	1662	2	12	3.0	980	2	20	5.9	208	0	0	66.6
120-124	1584	0	0	******	1746	0	0	4.6	1090	0	0	9.0	252	3	119	68.6
125-129	1550	1	6	******	1962	0	0	5.6	1352	3	22	11.6	394	3	76	69.5
130-134	2036	0	0	******	2818	1	4	7.0	2388	7	29	15.1	702	3	43	70.4
135-139	1448	0	0	******	2568	2	8	8.7	1964	2	10	19.8	692	6	87	71.4
140-144	816	0	0	******	1826	3	16	10.6	1638	2	12	25.6	712	6	84	72.3
145-149	428	0	0	******	1252	0	0	13.0	1110	0	0	32.9	456	4	88	73.2
150-154	188	1	53	******	600	4	67	16.3	554	2	36	43.1	264	3	114	74.2
155-159	78	0	0	******	202	0	0	19.8	298	1	34	56.4	156	0	0	75.1
160-216	34	0	0	******	156	0	0	27.9	170	5	294	87.5	86	0	0	76.7
UNKNOWN	808	1			858	3			394	0			56	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.025	0.043	0.005	0.053	0.000	0.003
SE(B)	******	******	0.023	0.026	0.014	0.018	0.020	0.017
A	*******	*******	-2.500	-12.201	-5.598	-12.839	-4.362	-4.604

TABLE 14-5-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	883	897	10	9	6	12	10	7	1095	1127	1083	11	8	9	10	7	8	
062-159	253	238	128	2	3	1	8	13	8	343	444	216	5	3	1	15	7	5	MEN
160-179	83	141	75	1	2	1	12	14	13	104	193	127	1	1	0	10	5	0	B 0.002 -0.004 -0.003
180-199	100	156	113	1	1	1	10	6	9	92	151	132	0	1	1	0	7	8	SE(B) 0.008 0.007 0.008
200-219	45	133	125	0	1	0	0	8	0	59	150	186	0	1	2	0	7	11	A -5.037 -3.997 -4.572
220-239	34	64	123	0	0	0	0	0	0	39	73	148	0	0	3	0	0	20	
240-259	30	36	106	1	0	0	33	0	0	18	32	117	1	1	1	56	31	9	WOMEN
260-279	16	39	77	0	0	0	0	0	0	7	22	59	1	1	0	143	45	0	B 0.006 0.009 0.012
280-299	3	23	61	0	0	1	0	0	16	3	12	43	0	0	0	0	0	0	SE(B) 0.008 0.007 0.006
300-319	4	13	32	0	0	1	0	0	31	1	4	16	0	0	0	0	0	0	A -5.454 -6.526 -7.264
320-968	7	12	39	0	1	0	0	83	0	0	6	9	0	0	1	****	0	111	
UNKNOWN	290	28	18	5	1	1				429	40	30	3	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	731	750	734	34	27	20	47	36	27	883	912	945	32	23	14	36	25	15	
062-159	158	212	112	9	5	3	57	24	27	159	204	133	3	4	4	19	20	30	MEN
160-179	68	119	81	2	5	1	29	42	12	66	114	90	5	2	0	76	18	0	B -0.003 -0.003 -0.001
180-199	47	132	90	3	9	2	64	68	22	72	142	86	1	1	1	14	7	12	SE(B) 0.005 0.004 0.004
200-219	49	117	109	0	4	5	0	34	46	72	170	172	3	10	3	42	59	17	A -2.567 -2.786 -3.372
220-239	20	64	91	2	1	1	100	16	11	33	100	95	2	1	1	61	10	11	
240-259	27	41	78	0	0	2	0	0	26	19	66	114	1	3	2	53	45	18	WOMEN
260-279	24	29	58	2	0	3	83	0	52	13	52	94	0	1	0	0	19	0	B 0.004 0.001 0.001
280-299	10	12	50	1	1	0	100	83	0	10	18	60	0	0	1	0	0	17	SE(B) 0.005 0.005 0.005
300-319	4	5	24	0	0	1	0	0	42	5	6	31	0	0	0	0	0	0	A -3.998 -3.793 -4.327
320-968	5	4	26	0	0	0	0	0	0	11	7	45	1	0	2	91	0	44	
UNKNOWN	319	15	15	15	2	2				423	33	25	16	1	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	348	499	589	23	30	28	66	60	48	437	613	739	26	34	40	59	55	54	
062-159	92	124	84	6	10	5	65	81	60	72	80	60	8	10	9	111	125	150	MEN
160-179	49	83	59	4	3	3	82	36	51	38	80	47	3	5	2	79	63	43	B 0.000 -0.000 -0.002
180-199	26	75	68	2	5	6	77	67	88	37	108	86	1	4	6	27	37	70	SE(B) 0.005 0.004 0.004
200-219	31	87	85	2	3	0	65	34	0	40	124	113	2	3	3	50	24	27	A -2.590 -2.722 -2.630
220-239	14	55	89	1	4	2	71	73	22	29	79	101	1	3	4	34	38	40	
240-259	9	29	83	0	3	7	0	103	84	14	46	112	0	2	5	0	43	45	WOMEN
260-279	14	20	47	2	1	1	143	50	21	15	31	63	0	1	5	0	32	79	B -0.012 -0.007 -0.006
280-299	3	12	23	0	0	3	0	0	130	5	23	68	0	2	2	0	87	29	SE(B) 0.006 0.004 0.003
300-319	0	2	29	0	0	1	****	0	34	8	9	41	1	1	3	125	111	73	A -0.509 -1.558 -1.502
320-968	3	3	20	0	0	0	0	0	0	6	9	33	0	0	1	0	0	30	
UNKNOWN	107	9	2	6	1	0				173	24	15	10	3	0				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 14-5-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: PHOSPHOLIPID (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	3	3		12496	14	11		9158	34	37		2878	18	63	
062-159	1334	0	0	******	1156	2	17	23.0	758	6	79	50.3	64	1	156	106.1
160-179	666	0	0	******	654	2	31	18.2	488	1	20	45.6	70	1	143	92.7
180-199	946	1	11	******	838	0	0	15.9	620	2	32	42.9	60	0	0	85.6
200-219	906	0	0	******	1040	3	29	13.8	810	3	37	40.5	214	1	47	78.1
220-239	892	0	0	******	1246	0	0	12.1	980	4	41	38.2	308	3	97	71.6
240-259	946	0	0	******	1656	3	18	10.6	1352	4	30	36.0	564	5	89	65.6
260-279	956	1	10	******	1630	1	6	9.3	1388	5	36	34.0	544	2	37	60.2
280-299	648	0	0	******	1422	2	14	8.2	1054	2	19	32.2	426	1	23	55.7
300-319	510	1	20	******	994	1	10	7.2	724	4	55	30.4	336	2	60	51.0
320-968	618	0	0	******	1268	0	0	5.6	778	2	26	27.2	274	2	73	44.8
UNKNOWN	500	0			592	0			206	1			18	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	3	3		15650	15	10		11938	24	20		3978	29	73	
062-159	2238	0	0	******	1336	2	15	8.4	618	0	0	16.2	30	1	333	237.9
160-179	984	0	0	******	768	0	0	8.5	464	1	22	17.2	50	0	0	182.8
180-199	1106	1	9	******	878	1	11	8.6	618	3	49	17.9	68	2	294	152.5
200-219	1296	1	8	******	1572	1	6	8.6	974	1	10	18.7	180	1	56	126.3
220-239	1246	0	0	******	1562	4	26	8.7	980	2	20	19.4	224	3	134	105.4
240-259	1184	0	0	******	1928	1	5	8.8	1304	2	15	20.1	418	7	167	89.9
260-279	892	0	0	******	2030	0	0	8.8	1610	2	12	20.8	656	6	91	76.2
280-299	618	0	0	******	1690	0	0	8.9	1510	3	20	21.6	666	2	30	64.6
300-319	364	0	0	******	1366	0	0	9.0	1472	5	34	22.4	734	2	27	55.1
320-968	264	0	0	******	1710	4	23	9.1	2022	5	25	24.1	888	4	45	40.6
UNKNOWN	742	1			810	2			366	0			64	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.007	0.000	-0.003	0.002	-0.004	-0.009
SE(B)	******	******	0.004	0.004	0.003	0.003	0.005	0.004
A	*******	*******	-4.507	-6.442	-4.199	-5.984	-3.226	-1.820

TABLE 14-6-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	10	9	6	12	10	7	1095	1127	1083	11	8	9	10	7	8
029-059	16	21	17	0	0	0	0	0	0	12	18	20	0	0	0	0	0	0
060-069	153	138	147	2	1	0	13	7	0	149	176	171	3	2	0	20	11	0
070-079	215	316	326	1	5	3	5	16	9	287	397	391	3	1	4	10	3	10
080-089	182	219	221	1	1	0	5	5	0	237	303	305	2	1	2	8	3	7
090-099	71	105	113	3	0	1	42	0	9	92	128	111	0	0	1	0	0	9
100-109	30	39	42	1	1	1	33	26	24	34	45	33	0	2	1	0	44	30
110-119	17	13	11	0	0	0	0	0	0	14	17	15	0	0	0	0	0	0
120-129	7	2	6	0	0	1	0	0	167	5	7	5	0	1	0	0	143	0
130-139	5	5	3	0	0	0	0	0	0	2	1	4	0	0	0	0	0	0
140-524	4	5	4	0	1	0	0	200	0	4	5	7	0	0	0	0	0	0
UNKNOWN	165	20	7	2	0	0				259	30	21	3	1	1			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	34	27	20	47	36	27	883	912	945	32	23	14	36	25	15
029-059	11	15	13	2	0	0	182	0	0	5	10	14	0	0	0	0	0	0
060-069	103	98	102	3	1	2	29	10	20	88	123	122	4	2	0	45	16	0
070-079	156	252	227	4	10	4	26	40	18	171	263	332	5	6	4	29	23	12
080-089	132	185	212	6	7	5	45	38	24	196	284	267	4	6	5	20	21	19
090-099	79	102	91	6	3	3	76	29	33	87	114	117	1	3	1	11	26	9
100-109	20	37	43	1	1	1	50	27	23	46	50	37	3	1	0	65	20	0
110-119	13	24	14	1	2	1	77	83	71	14	23	21	0	0	0	0	0	0
120-129	3	7	6	0	0	0	0	0	0	6	3	4	0	0	0	0	0	0
130-139	6	2	3	1	0	1	167	0	333	2	4	5	1	0	1	500	0	200
140-524	15	17	15	3	3	3	200	176	200	9	13	15	2	4	3	222	308	200
UNKNOWN	193	11	8	7	0	0				259	25	11	12	1	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	23	30	28	66	60	48	437	613	739	26	34	40	59	55	54
029-059	8	9	7	1	0	0	125	0	0	5	15	12	1	1	1	200	67	83
060-069	40	70	80	5	4	1	125	57	13	35	60	62	2	7	8	57	117	129
070-079	91	152	172	5	8	11	55	53	64	95	164	211	4	3	8	42	18	38
080-089	72	129	147	5	11	6	69	85	41	91	171	228	6	5	10	66	29	44
090-099	38	58	94	3	2	6	79	34	64	55	99	99	2	8	2	36	81	20
100-109	13	23	31	0	2	1	0	87	32	24	46	56	0	1	3	0	22	54
110-119	8	21	18	0	1	1	0	48	56	4	9	18	0	0	1	0	0	56
120-129	3	8	15	0	0	0	0	0	0	6	12	18	0	3	4	0	250	222
130-139	2	2	4	0	0	1	0	0	250	4	1	3	0	1	1	0	1000	333
140-524	10	15	18	0	1	1	0	67	56	14	18	23	1	3	2	71	167	87
UNKNOWN	63	12	3	4	1	0				104	18	9	10	2	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.015	0.028	0.013
SE(B)	0.015	0.012	0.008
A	-5.648	-6.915	-6.120
WOMEN			
B	-0.045	0.030	0.006
SE(B)	0.034	0.019	0.016
A	-1.224	-7.550	-5.403
AGE 45-54 AT EXAM			
MEN			
B	0.011	0.011	0.013
SE(B)	0.004	0.004	0.005
A	-3.907	-4.262	-4.762
WOMEN			
B	0.017	0.024	0.019
SE(B)	0.007	0.006	0.005
A	-4.942	-5.861	-5.957
AGE 55-64 AT EXAM			
MEN			
B	-0.042	0.001	0.003
SE(B)	0.021	0.007	0.006
A	0.696	-2.804	-3.235
WOMEN			
B	-0.010	0.010	0.005
SE(B)	0.013	0.004	0.004
A	-2.178	-3.748	-3.277

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 14-6-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: BLOOD SUGAR (MG/100 ML)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	3	3		12496	14	11		9158	34	37		2878	18	63	
029-059	296	0	0	******	350	0	0	13.6	264	1	38	28.5	70	0	0	66.1
060-069	1734	0	0	******	2276	3	13	12.8	1486	2	13	31.1	498	1	20	65.0
070-079	2946	2	7	******	4068	5	12	12.0	2800	9	32	33.5	818	5	61	64.1
080-089	2084	0	0	******	2882	4	14	11.3	2216	7	32	36.3	652	6	92	63.2
090-099	914	1	11	******	1356	1	7	10.6	1082	5	46	39.3	420	4	95	62.3
100-109	350	0	0	******	552	0	0	9.9	454	2	44	42.5	142	2	141	61.4
110-119	160	0	0	******	258	1	39	9.2	248	3	121	46.4	70	0	0	60.5
120-129	52	0	0	******	104	0	0	8.7	136	0	0	50.5	42	0	0	59.6
130-139	36	0	0	******	58	0	0	8.1	60	2	333	54.9	36	0	0	58.9
140-524	58	0	0	******	244	0	0	5.4	256	3	117	112.2	106	0	0	53.0
UNKNOWN	292	0			348	0			156	0			24	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	3	3		15650	15	10		11938	24	20		3978	29	73	
029-059	260	0	0	******	308	0	0	5.3	244	1	41	15.2	64	0	0	62.0
060-069	1864	1	5	******	2716	1	4	6.1	1526	5	33	16.6	474	5	105	64.7
070-079	3868	1	3	******	5262	3	6	6.9	3776	9	24	18.0	1250	5	40	67.4
080-089	2880	0	0	******	3944	5	13	7.8	3206	3	9	19.4	1016	7	69	70.0
090-099	986	0	0	******	1630	0	0	8.9	1478	1	7	21.2	536	5	93	72.8
100-109	322	0	0	******	632	1	16	10.1	642	1	16	23.1	262	2	76	75.7
110-119	136	0	0	******	294	0	0	11.6	272	1	37	25.1	88	2	227	79.1
120-129	48	0	0	******	100	0	0	13.2	204	1	49	27.3	100	1	100	82.3
130-139	20	0	0	******	40	1	250	15.2	58	0	0	29.9	34	0	0	85.2
140-524	58	0	0	******	170	1	59	51.0	294	2	68	70.7	112	1	89	117.5
UNKNOWN	492	1			554	3			238	0			42	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.007	0.013	0.008	0.009	-0.001	0.004
SE(B)	******	******	0.016	0.006	0.003	0.003	0.009	0.005
A	*******	*******	-5.527	-7.583	-5.615	-6.266	-4.233	-4.597

TABLE 14-7-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: URIC ACID (MG/LITER)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	10	9	6	12	10	7	1095	1127	1083	11	8	9	10	7	8
005-029	30	15	22	0	0	1	0	0	45	188	170	170	1	0	0	5	0	0
030-034	36	41	29	1	2	1	28	49	34	120	208	255	1	1	2	8	5	8
035-039	77	53	64	0	1	0	0	19	0	124	273	267	0	0	3	0	0	11
040-044	77	138	151	0	0	0	0	0	0	112	219	209	2	2	4	18	9	19
045-049	90	159	183	0	0	1	0	0	5	66	117	88	2	2	0	30	17	0
050-054	98	153	175	0	1	1	0	7	6	22	56	44	0	1	0	0	18	0
055-059	74	121	139	2	0	0	27	0	0	23	28	20	1	0	0	43	0	0
060-064	43	87	67	1	2	1	23	23	15	6	9	3	0	1	0	0	111	0
065-069	29	53	29	0	2	0	0	38	0	4	4	4	1	1	0	250	250	0
070-104	24	35	24	1	0	0	42	0	0	5	4	1	0	0	0	0	0	0
UNKNOWN	287	28	14	5	1	1				425	39	22	3	0	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	34	27	20	47	36	27	883	912	945	32	23	14	36	25	15
005-029	23	18	9	1	0	0	43	0	0	88	101	103	4	2	1	45	20	10
030-034	27	23	25	1	2	1	37	87	40	73	114	162	2	3	1	27	26	6
035-039	46	67	49	2	2	3	43	30	61	80	176	203	1	2	1	13	11	5
040-044	51	103	124	4	3	5	78	29	40	73	178	185	0	4	1	0	22	5
045-049	75	127	153	5	6	0	67	47	0	76	121	134	3	4	3	39	33	22
050-054	60	117	139	2	1	6	33	9	43	36	87	87	2	5	2	56	57	23
055-059	57	110	93	3	6	1	53	55	11	15	61	41	1	1	2	67	16	49
060-064	37	78	79	1	3	1	27	38	13	14	26	10	1	0	1	71	0	100
065-069	22	47	30	0	1	0	0	21	0	8	8	4	2	1	2	250	125	500
070-104	24	47	20	0	1	1	0	21	50	3	7	2	0	0	0	0	0	0
UNKNOWN	309	13	13	15	2	2				417	33	14	16	1	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	23	30	28	66	60	48	437	613	739	26	34	40	59	55	54
005-029	9	8	5	1	0	0	111	0	0	26	60	53	0	2	3	0	33	57
030-034	19	21	15	0	1	0	0	48	0	39	72	99	2	3	1	51	42	10
035-039	26	47	60	2	1	2	77	21	33	49	104	138	4	4	8	82	38	58
040-044	38	61	92	3	4	2	79	66	22	60	119	174	1	7	9	17	59	52
045-049	40	85	116	3	5	5	75	59	43	38	102	124	2	4	3	53	39	24
050-054	39	84	116	3	3	6	77	36	52	27	61	66	2	3	6	74	49	91
055-059	33	73	92	3	5	8	91	68	87	16	38	39	1	4	5	63	105	128
060-064	19	61	50	2	6	2	105	98	40	4	20	17	2	1	3	500	50	176
065-069	12	29	26	0	2	3	0	69	115	4	10	11	0	3	1	0	300	91
070-104	11	22	14	0	2	0	0	91	0	4	6	6	1	1	1	250	167	167
UNKNOWN	102	8	3	6	1	0				170	21	12	11	2	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.044	0.008	-0.056
SE(B)	0.031	0.033	0.047
A	-7.047	-5.047	-2.556
WOMEN			
B	0.063	0.090	0.021
SE(B)	0.025	0.027	0.040
A	-6.943	-8.718	-5.567
AGE 45-54 AT EXAM			
MEN			
B	-0.022	-0.008	-0.022
SE(B)	0.019	0.018	0.025
A	-1.998	-2.962	-2.566
WOMEN			
B	0.029	0.018	0.099
SE(B)	0.022	0.021	0.028
A	-4.531	-4.408	-8.542
AGE 55-64 AT EXAM			
MEN			
B	-0.001	0.030	0.033
SE(B)	0.021	0.017	0.020
A	-2.557	-4.329	-4.659
WOMEN			
B	0.049	0.038	0.043
SE(B)	0.024	0.017	0.016
A	-4.993	-4.564	-4.737

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 14-7-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: URIC ACID (MG/LITER)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	3	3		12496	14	11		9158	34	37		2878	18	63	
005-029	190	0	0	******	184	0	0	10.9	88	0	0	23.6	40	1	250	73.9
030-034	352	0	0	******	372	2	54	10.9	330	2	61	26.9	112	1	89	70.9
035-039	642	0	0	******	1004	1	10	10.9	808	1	12	29.0	250	1	40	68.8
040-044	1408	1	7	******	1830	1	5	10.9	1460	9	62	31.7	534	3	56	66.3
045-049	1654	1	6	******	2436	2	8	10.9	1914	3	16	34.6	534	3	56	64.1
050-054	1592	0	0	******	2344	1	4	10.9	1568	4	26	37.6	480	3	63	62.1
055-059	1226	1	8	******	1696	3	18	10.9	1300	7	54	40.9	448	4	89	59.9
060-064	712	0	0	******	1048	2	19	10.9	840	1	12	44.5	254	1	39	58.0
065-069	406	0	0	******	532	0	0	10.9	368	4	109	48.4	118	1	85	56.2
070-104	266	0	0	******	466	1	21	10.9	282	2	71	57.1	82	0	0	52.9
UNKNOWN	474	0			584	1			200	1			26	0		

	WOMEN	AGED	35-44 AT EXAM		WOMEN	AGED	45-54 AT EXAM		WOMEN	AGED	55-64 AT EXAM		WOMEN	AGED	65-74 AT EXAM	
TOTAL	10934	3	3		15650	15	10		11938	24	20		3978	29	73	
005-029	1824	0	0	******	2154	0	0	1.8	1036	1	10	10.8	266	1	38	26.6
030-034	2292	1	4	******	2698	1	4	3.1	1610	5	31	13.7	484	1	21	36.5
035-039	2484	1	4	******	3428	2	6	4.9	2352	1	4	16.4	780	4	51	47.2
040-044	2008	0	0	******	3162	1	3	7.8	2714	6	22	19.8	874	8	92	61.6
045-049	888	0	0	******	1700	3	18	12.5	1874	4	21	24.0	740	6	81	80.7
050-054	382	0	0	******	972	3	31	20.0	1050	2	19	29.0	402	3	75	106.0
055-059	224	0	0	******	434	2	46	31.4	504	1	20	34.7	220	1	45	132.2
060-064	66	0	0	******	206	0	0	48.6	240	1	42	41.5	66	0	0	172.1
065-069	32	0	0	******	98	1	102	79.9	142	3	211	50.5	36	1	278	221.3
070-104	26	0	0	******	28	0	0	137.9	64	0	0	66.9	38	3	789	366.5
UNKNOWN	708	1			770	2			352	0			72	1		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.000	0.095	0.017	0.038	-0.007	0.055
SE(B)	******	******	0.027	0.025	0.017	0.020	0.024	0.018
A	*******	*******	-6.120	-10.423	-5.792	-7.125	-4.012	-6.673

TABLE 14-8-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	883	897	10	9	6	12	10	7	1095	1127	1083	11	8	9	10	7	8	
052-084	98	85	73	2	2	1	20	24	14	196	196	174	5	1	2	26	5	11	MEN
085-089	78	77	83	1	0	0	13	0	0	129	150	159	1	3	1	8	20	6	B -0.011 -0.015 -0.008
090-094	105	114	94	0	0	0	0	0	0	153	179	166	0	0	1	0	0	6	SE(B) 0.023 0.025 0.030
095-099	122	137	142	1	2	1	8	15	7	153	155	142	0	1	1	0	6	7	A -3.324 -3.043 -4.169
100-104	108	104	119	2	1	0	19	10	0	120	110	130	1	0	1	8	0	8	
105-109	112	105	117	2	2	2	18	19	17	96	92	84	0	0	0	0	0	0	WOMEN
110-114	88	100	107	0	1	2	0	10	19	64	60	60	0	0	0	0	0	0	B 0.024 0.031 0.029
115-119	58	63	58	2	0	0	34	0	0	45	57	45	1	0	0	22	0	0	SE(B) 0.012 0.015 0.014
120-124	40	42	43	0	1	0	0	24	0	29	39	37	0	0	0	0	0	0	A -7.115 -8.193 -7.829
125-226	51	51	56	0	0	0	0	0	0	99	76	76	3	3	3	30	39	39	
UNKNOWN	5	5	5	0	0	0				11	13	10	0	0	0				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	731	750	734	34	27	20	47	36	27	883	912	945	32	23	14	36	25	15	
052-084	57	65	64	3	2	1	53	31	16	69	82	93	5	5	2	72	61	22	MEN
085-089	51	51	52	3	3	1	59	59	19	56	75	90	4	3	1	71	40	11	B -0.002 -0.010 -0.005
090-094	103	84	83	3	3	4	29	36	48	83	89	109	3	4	3	36	45	28	SE(B) 0.014 0.015 0.017
095-099	98	120	94	3	5	2	31	42	21	124	120	141	4	1	1	32	8	7	A -2.769 -2.285 -3.088
100-104	111	108	117	8	6	4	72	56	34	127	128	122	2	1	0	16	8	0	
105-109	120	107	109	6	0	1	50	0	9	101	103	101	1	1	3	10	10	30	WOMEN
110-114	68	91	85	4	5	4	59	55	47	80	84	81	3	3	1	38	36	12	B 0.005 -0.011 0.005
115-119	52	54	61	1	2	3	19	37	49	63	69	61	1	1	1	16	14	16	SE(B) 0.009 0.013 0.014
120-124	23	29	26	1	0	0	43	0	0	52	46	35	1	0	0	19	0	0	A -3.759 -2.480 -4.712
125-226	43	37	40	2	1	0	47	27	0	123	112	109	8	4	2	65	36	18	
UNKNOWN	5	4	3	0	0	0				5	4	3	0	0	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	348	499	589	23	30	28	66	60	48	437	613	739	26	34	40	59	55	54	
052-084	47	53	50	5	6	6	106	113	120	30	40	50	1	2	6	33	50	120	MEN
085-089	24	34	44	3	2	1	125	59	23	25	38	48	4	2	6	160	53	125	B -0.017 -0.022 -0.025
090-094	31	49	62	0	1	2	0	20	32	39	57	63	1	2	1	26	35	16	SE(B) 0.016 0.014 0.015
095-099	55	83	90	2	2	6	36	24	67	47	73	101	3	4	3	64	55	30	A -0.908 -0.582 -0.504
100-104	54	71	90	5	6	4	93	85	44	51	84	103	0	2	4	0	24	39	
105-109	35	63	85	4	5	2	114	79	24	39	57	85	1	1	0	26	18	0	WOMEN
110-114	39	59	78	0	6	3	0	102	38	47	64	57	3	4	2	64	63	35	B 0.015 0.020 0.009
115-119	24	41	37	4	1	2	167	24	54	43	44	63	3	1	3	70	23	48	SE(B) 0.009 0.008 0.008
120-124	20	24	25	0	1	1	0	42	40	29	50	46	3	6	3	103	120	65	A -4.435 -5.025 -3.820
125-226	15	19	27	0	0	1	0	0	37	85	105	120	7	10	12	82	95	100	
UNKNOWN	4	3	1	0	0	0				2	1	3	0	0	0				

* PERIDD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 14-8-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: FRAMINGHAM RELATIVE WEIGHT (PERCENT)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	3	3		12496	14	11		9158	34	37		2878	18	63	
052-084	752	1	13	******	966	4	41	44.0	772	4	52	58.6	336	7	208	140.2
085-089	724	0	0	******	932	2	21	23.4	618	1	16	49.2	232	1	43	95.5
090-094	958	0	0	******	1344	3	22	16.1	944	6	64	44.4	286	0	0	78.1
095-099	1414	0	0	******	1764	2	11	11.3	1430	7	49	40.2	414	2	48	63.8
100-104	1198	0	0	******	1880	2	11	7.8	1512	5	33	36.3	400	2	50	52.8
105-109	1150	1	9	******	1812	0	0	5.5	1324	5	38	32.8	402	2	50	43.8
110-114	1024	1	10	******	1438	1	7	3.8	1022	2	20	29.7	366	2	55	35.7
115-119	644	0	0	******	914	0	0	2.6	656	3	46	26.9	176	2	114	30.0
120-124	430	0	0	******	584	0	0	1.8	474	1	21	24.2	104	0	0	23.9
125-226	578	0	0	******	798	0	0	0.9	376	0	0	19.5	148	0	0	16.4
UNKNOWN	50	0			64	0			30	0			14	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	3	3		15650	15	10		11938	24	20		3978	29	73	
052-084	1884	1	5	******	1678	3	18	5.0	932	8	86	51.9	428	7	164	56.2
085-089	1494	0	0	******	1692	2	12	6.0	920	3	33	35.9	244	1	41	60.8
090-094	1690	0	0	******	1916	1	5	6.7	1176	3	26	29.3	356	2	56	63.5
095-099	1524	0	0	******	2300	0	0	7.5	1634	3	18	23.6	490	2	41	66.3
100-104	1182	1	8	******	1926	1	5	8.4	1522	1	7	19.2	488	1	20	69.3
105-109	814	0	0	******	1572	1	6	9.4	1340	0	0	15.5	460	3	65	72.3
110-114	612	1	16	******	1208	2	17	10.5	1158	2	17	12.6	336	1	30	75.6
115-119	490	0	0	******	906	0	0	11.8	852	0	0	10.2	300	2	67	79.0
120-124	316	0	0	******	626	0	0	13.2	628	1	16	8.2	230	3	130	82.4
125-226	822	0	0	******	1724	5	29	22.3	1732	3	17	4.3	636	7	110	95.9
UNKNOWN	106	0			102	0			44	0			10	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.073	0.023	-0.021	-0.043	-0.040	0.009
SE(B)	******	******	0.022	0.010	0.014	0.015	0.017	0.009
A	*******	*******	1.026	-8.706	-2.812	-1.217	-0.453	-5.178

TABLE 14-9-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	10	9	6	12	10	7	1095	1127	1083	11	8	9	10	7	8
05-14	1	0	1	0	0	0	0	****	0	9	12	7	0	0	0	0	0	0
15-19	1	5	3	0	0	0	0	0	0	62	46	28	0	1	1	0	22	36
20-24	12	13	10	0	0	0	0	0	0	234	190	191	5	1	1	21	5	5
25-29	43	45	30	1	1	1	23	22	33	415	477	411	3	5	6	7	10	15
30-34	157	128	135	2	2	2	13	16	15	285	310	332	3	1	1	11	3	3
35-39	250	256	249	4	3	2	16	12	8	70	81	96	0	0	0	0	0	0
40-44	237	269	257	2	2	0	8	7	0	10	7	15	0	0	0	0	0	0
45-49	116	120	146	1	1	1	9	8	7	2	2	1	0	0	0	0	0	0
50-54	33	38	56	0	0	0	0	0	0	1	0	0	0	0	0	0	****	****
55-61	5	7	9	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
UNKNOWN	10	2	1	0	0	0				7	2	2	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	34	27	20	47	36	27	883	912	945	32	23	14	36	25	15
05-14	1	1	0	0	0	0	0	0	****	20	30	22	6	7	1	300	233	45
15-19	3	5	5	0	0	0	0	0	0	109	120	94	7	5	2	64	42	21
20-24	25	17	18	3	1	2	120	59	111	331	308	312	13	6	6	39	19	19
25-29	76	74	87	6	5	3	79	68	34	276	314	340	5	4	4	18	13	12
30-34	176	203	196	12	8	7	68	39	36	125	123	153	0	1	1	0	8	7
35-39	228	234	212	8	8	5	35	34	24	16	15	22	1	0	0	63	0	0
40-44	148	159	153	5	5	3	34	31	20	2	1	2	0	0	0	0	0	0
45-49	54	44	49	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
50-54	15	11	11	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
55-61	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
UNKNOWN	3	0	1	0	0	0				4	1	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	23	30	28	66	60	48	437	613	739	26	34	40	59	55	54
05-14	1	3	4	0	1	1	0	333	250	26	47	53	2	7	9	77	149	170
15-19	3	14	7	1	3	2	333	214	286	85	142	157	7	9	9	82	63	57
20-24	19	37	43	3	6	6	158	162	140	207	256	313	10	15	15	48	59	48
25-29	71	89	111	8	7	8	113	79	72	85	141	169	5	1	6	59	7	36
30-34	107	144	173	2	6	5	19	42	29	24	24	41	1	2	1	42	83	24
35-39	96	145	172	6	5	6	63	34	35	4	2	5	0	0	0	0	0	0
40-44	35	50	61	2	2	0	57	40	0	0	0	0	0	0	0	****	****	****
45-49	8	13	12	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
50-54	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0	****	****	****
55-61	0	0	0	0	0	0	****	****	****	0	0	0	0	0	0	****	****	****
UNKNOWN	7	3	2	1	0	0				6	1	1	1	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	-0.044	-0.062	-0.101
SE(B)	0.048	0.049	0.057
A	-2.766	-2.247	-1.203
WOMEN			
B	-0.027	-0.104	-0.075
SE(B)	0.058	0.066	0.065
A	-3.863	-2.188	-2.717
AGE 45-54 AT EXAM			
MEN			
B	-0.085	-0.057	-0.074
SE(B)	0.026	0.030	0.036
A	-0.089	-1.308	-1.018
WOMEN			
B	-0.186	-0.196	-0.094
SE(B)	0.037	0.040	0.051
A	0.859	0.602	-1.966
AGE 55-64 AT EXAM			
MEN			
B	-0.069	-0.110	-0.132
SE(B)	0.038	0.028	0.030
A	-0.478	0.618	1.032
WOMEN			
B	-0.048	-0.101	-0.093
SE(B)	0.043	0.034	0.031
A	-1.770	-0.786	-0.930

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 14-9-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: VITAL CAPACITY (DECILITERS)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	3	3		12496	14	11		9158	34	37		2878	18	63	
05-14	6	0	0	******	10	0	0	117.5	28	2	714	330.7	14	0	0	476.8
15-19	28	0	0	******	76	0	0	59.8	126	1	79	173.8	94	4	426	268.2
20-24	98	0	0	******	308	0	0	36.4	534	5	94	103.3	318	5	157	139.7
25-29	338	1	30	******	1126	5	44	23.1	1688	10	59	58.5	716	4	56	73.9
30-34	1328	0	0	******	2826	5	18	14.7	2616	7	27	34.0	988	3	30	38.7
35-39	2422	2	8	******	3824	1	3	9.1	2568	8	31	19.6	536	2	37	19.8
40-44	2576	0	0	******	2854	3	11	5.7	1178	1	8	11.4	164	0	0	10.5
45-49	1378	0	0	******	1102	0	0	3.6	300	0	0	6.4	30	0	0	5.3
50-54	600	0	0	******	304	0	0	2.2	80	0	0	3.5	4	0	0	3.1
55-61	124	0	0	******	60	0	0	1.4	10	0	0	2.3	2	0	0	1.6
UNKNOWN	24	0			6	0			30	0			12	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	3	3		15650	15	10		11938	24	20		3978	29	73	
05-14	54	0	0	******	216	1	46	83.0	548	6	109	87.2	450	13	289	236.5
15-19	356	0	0	******	1220	4	33	29.5	2236	7	31	33.8	1188	6	51	88.3
20-24	1770	1	6	******	4504	6	13	12.5	5016	6	12	17.2	1608	8	50	41.2
25-29	4288	1	2	******	5948	4	7	5.4	3214	4	12	8.4	630	2	32	18.4
30-34	3224	1	3	******	3120	0	0	2.3	808	1	12	4.2	98	0	0	8.1
35-39	1050	0	0	******	564	0	0	0.9	98	0	0	2.0	4	0	0	4.0
40-44	142	0	0	******	56	0	0	0.4	2	0	0	0.9	0	0	*****	******
45-49	16	0	0	******	8	0	0	0.2	2	0	0	0.4	0	0	*****	******
50-54	0	0	*****	******	0	0	*****	******	0	0	*****	******	0	0	*****	******
55-61	2	0	0	******	0	0	*****	******	0	0	*****	******	0	0	*****	******
UNKNOWN	32	0			14	0			14	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	-0.098	-0.183	-0.116	-0.151	-0.138	-0.173
SE(B)	******	******	0.038	0.047	0.026	0.038	0.039	0.037
A	*******	*******	-2.711	-1.947	-1.284	-2.375	-0.506	-1.051

TABLE 14-10-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	- M E N -									- W O M E N -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	883	897	10	9	6	12	10	7	1095	1127	1083	11	8	9	10	7	8	
NONE	0	121	119	0	4	2	****	33	17	0	331	310	0	3	4	****	9	13	MEN
000-009	0	255	274	0	1	1	****	4	4	0	448	442	0	1	2	****	2	5	B******* -0.004 0.001
010-019	0	128	126	0	0	0	****	0	0	0	101	98	0	2	1	****	20	10	SE(B)****** 0.011 0.011
020-029	0	77	75	0	0	0	****	0	0	0	61	55	0	0	0	****	0	0	A******* -4.511 -5.100
030-039	0	45	54	0	2	1	****	44	19	0	35	32	0	1	1	****	29	31	
040-049	0	46	45	0	0	0	****	0	0	0	15	13	0	0	0	****	0	0	WOMEN
050-059	0	26	26	0	0	0	****	0	0	0	8	7	0	0	0	****	0	0	B******* -0.004 -0.016
060-069	0	24	22	0	0	0	****	0	0	0	21	22	0	0	0	****	0	0	SE(B)****** 0.024 0.031
070-079	0	17	16	0	0	0	****	0	0	0	5	5	0	0	0	****	0	0	A******* -4.953 -4.705
080-457	0	60	58	0	1	1	****	17	17	0	10	9	0	0	0	****	0	0	
UNKNOWN	865	84	82	10	1	1				1095	92	90	11	1	1				
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	731	750	734	34	27	20	47	36	27	883	912	945	32	23	14	36	25	15	
NONE	0	137	124	0	5	4	****	36	32	0	378	372	0	10	4	****	26	11	MEN
000-009	0	205	200	0	5	4	****	24	20	0	316	343	0	9	6	****	28	17	B******* 0.006 0.001
010-019	0	77	78	0	2	1	****	26	13	0	54	54	0	1	2	****	19	37	SE(B)****** 0.005 0.007
020-029	0	55	61	0	2	2	****	36	33	0	35	39	0	1	1	****	29	26	A******* -3.513 -3.668
030-039	0	65	62	0	2	2	****	31	32	0	31	34	0	0	0	****	0	0	
040-049	0	35	35	0	2	1	****	57	29	0	16	17	0	1	1	****	63	59	WOMEN
050-059	0	29	25	0	0	0	****	0	0	0	4	3	0	0	0	****	0	0	B******* -0.009 0.006
060-069	0	24	31	0	1	1	****	42	32	0	7	10	0	0	0	****	0	0	SE(B)****** 0.019 0.016
070-079	0	6	8	0	0	0	****	0	0	0	1	1	0	0	0	****	0	0	A******* -3.576 -4.165
080-457	0	51	43	0	4	2	****	78	47	0	7	7	0	0	0	****	0	0	
UNKNOWN	731	66	67	34	4	3				883	63	65	32	1	0				
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	348	499	589	23	30	28	66	60	48	437	613	739	26	34	40	59	55	54	
NONE	0	117	133	0	5	6	****	43	45	0	304	362	0	20	26	****	66	72	MEN
000-009	0	148	169	0	11	9	****	74	53	0	187	226	0	7	10	****	37	44	B******* -0.002 -0.004
010-019	0	38	53	0	2	2	****	53	38	0	19	33	0	0	0	****	0	0	SE(B)****** 0.005 0.006
020-029	0	24	30	0	3	2	****	125	67	0	20	26	0	0	0	****	0	0	A******* -2.645 -2.871
030-039	0	36	43	0	2	3	****	56	70	0	19	21	0	0	0	****	0	0	
040-049	0	23	29	0	1	1	****	43	34	0	5	7	0	0	0	****	0	0	WOMEN
050-059	0	12	17	0	2	2	****	167	118	0	2	4	0	0	0	****	0	0	B******* 0.004 -0.026
060-069	0	8	8	0	0	0	****	0	0	0	1	1	0	1	1	****	1000	1000	SE(B)****** 0.011 0.023
070-079	0	12	13	0	1	1	****	83	77	0	2	1	0	0	0	****	0	0	A******* -2.935 -2.769
080-457	0	35	46	0	2	1	****	57	22	0	5	5	0	1	0	****	200	0	
UNKNOWN	348	46	48	23	1	1				437	49	53	26	5	3				

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 14-10-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: ALCOHOL CONSUMED (OUNCES PER MONTH)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	3	3		12496	14	11		9158	34	37		2878	18	63	
NONE	1016	0	0	******	1824	5	27	12.1	1902	11	58	46.7	680	3	44	63.8
000-009	2294	1	4	******	3060	1	3	12.1	2322	9	39	45.6	792	5	63	63.6
010-019	1030	0	0	******	1302	2	15	12.2	806	4	50	41.8	244	1	41	62.8
020-029	604	0	0	******	852	0	0	12.2	534	2	37	38.4	192	2	104	62.0
030-039	436	0	0	******	898	1	11	12.3	632	1	16	35.8	216	1	46	61.3
040-049	386	0	0	******	622	2	32	12.3	486	2	41	32.6	132	2	152	60.4
050-059	160	0	0	******	274	0	0	12.4	192	0	0	30.1	76	1	132	59.7
060-069	266	0	0	******	518	1	19	12.4	382	1	26	27.9	114	1	88	59.1
070-079	140	0	0	******	258	0	0	12.5	164	0	0	25.4	54	0	0	58.2
080-457	570	1	18	******	1010	1	10	12.8	660	2	30	18.3	244	1	41	54.9
UNKNOWN	2020	1			1878	1			1078	2			134	1		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	3	3		15650	15	10		11938	24	20		3978	29	73	
NONE	2526	1	4	******	4654	2	4	7.6	5172	10	19	21.4	2086	16	77	69.9
000-009	3746	1	3	******	5422	4	7	7.8	3614	9	25	21.5	1100	9	82	70.5
010-019	852	0	0	******	1052	2	19	8.3	480	0	0	21.6	168	0	0	72.8
020-029	458	0	0	******	636	2	31	8.8	398	1	25	21.7	156	0	0	75.0
030-039	384	0	0	******	738	0	0	9.3	500	2	40	21.8	152	0	0	77.2
040-049	136	0	0	******	268	1	37	10.1	180	0	0	22.0	60	0	0	79.9
050-059	66	0	0	******	88	0	0	10.7	62	0	0	22.1	14	0	0	82.7
060-069	204	0	0	******	324	0	0	11.3	120	1	83	22.2	30	1	333	85.0
070-079	46	0	0	******	94	0	0	12.2	34	0	0	22.4	16	0	0	88.8
080-457	94	0	0	******	188	0	0	14.9	130	0	0	22.8	12	1	833	101.2
UNKNOWN	2422	1			2186	4			1248	1			184	2		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.000	0.006	-0.008	0.001	-0.001	0.003
SE(B)	******	******	0.007	0.013	0.007	0.012	0.007	0.013
A	*******	*******	-6.022	-6.485	-4.664	-5.447	-4.348	-4.256

TABLE 14-11-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	10	9	6	12	10	7	1095	1127	1083	11	8	9	10	7	8
NONE	244	247	259	2	1	1	8	4	4	533	523	495	0	0	0	0	0	0
UNDER 20	147	145	140	2	0	0	14	0	0	358	378	372	6	6	6	17	16	16
20	254	257	263	3	3	0	12	12	0	152	173	163	2	2	2	13	12	12
OVER 20	216	228	230	3	5	5	14	22	22	44	47	47	2	0	1	45	0	21
UNKNOWN	4	6	5	0	0	0				8	6	6	1	0	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	34	27	20	47	36	27	883	912	945	32	23	14	36	25	15
NONE	281	271	262	8	6	5	28	22	19	603	592	577	19	12	7	32	20	12
UNDER 20	116	116	115	4	4	3	34	34	26	180	208	236	7	7	5	39	34	21
20	171	189	182	13	9	6	76	48	33	71	80	98	2	0	0	28	0	0
OVER 20	155	165	167	8	7	5	52	42	30	23	29	31	2	3	2	87	103	65
UNKNOWN	8	9	8	1	1	1				6	3	3	2	1	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	23	30	28	66	60	48	437	613	739	26	34	40	59	55	54
NONE	165	237	257	9	11	10	55	46	39	348	471	546	22	28	30	63	59	55
UNDER 20	68	94	116	6	6	5	88	64	43	63	97	132	2	2	5	32	21	38
20	75	106	135	3	7	8	40	66	59	16	30	41	2	4	4	125	133	98
OVER 20	37	60	79	5	6	5	135	100	63	8	11	16	0	0	1	0	0	63
UNKNOWN	3	2	2	0	0	0				2	4	4	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.145	0.734	0.978
SE(B)	0.282	0.377	0.533
A	-4.677	-6.009	-7.024
WOMEN			
B	0.948	0.555	0.746
SE(B)	0.316	0.360	0.335
A	-5.754	-5.489	-5.590
AGE 45-54 AT EXAM			
MEN			
B	0.266	0.236	0.167
SE(B)	0.151	0.170	0.196
A	-3.425	-3.666	-3.860
WOMEN			
B	0.197	0.316	0.305
SE(B)	0.221	0.233	0.289
A	-3.439	-3.888	-4.396
AGE 55-64 AT EXAM			
MEN			
B	0.200	0.248	0.189
SE(B)	0.195	0.166	0.171
A	-2.850	-3.020	-3.214
WOMEN			
B	-0.130	-0.046	0.092
SE(B)	0.358	0.280	0.224
A	-2.723	-2.814	-2.890

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 14-11-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: CIGARETTES SMOKED (NUMBER PER DAY)

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	3	3		12496	14	11		9158	34	37		2878	18	63	
NONE	2774	0	0	1.7	4650	2	4	5.7	4368	15	34	37.3	1666	6	36	42.4
UNDER 20	1392	1	7	2.5	1794	0	0	8.7	1528	7	46	37.3	564	6	106	63.7
20	2416	1	4	3.7	2972	9	30	13.0	1804	8	44	37.4	380	2	53	95.6
OVER 20	2288	1	4	5.6	3008	3	10	19.6	1408	4	28	37.4	260	4	154	142.9
UNKNOWN	52	0			72	0			50	0			8	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	3	3		15650	15	10		11938	24	20		3978	29	73	
NONE	5018	0	0	0.4	8884	4	5	5.0	8554	16	19	18.0	3176	23	72	71.2
UNDER 20	3494	1	3	1.2	3700	4	11	8.6	2068	3	15	22.7	556	3	54	78.4
20	1736	0	0	3.8	2164	3	14	14.8	876	4	46	28.6	166	3	181	86.4
OVER 20	628	1	16	12.2	840	2	24	25.4	396	1	25	36.1	62	0	0	95.2
UNKNOWN	58	1			62	2			44	0			18	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	0.402	1.176	0.410	0.541	0.001	0.234	0.412	0.098
SE(B)	0.535	0.729	0.235	0.254	0.151	0.227	0.203	0.284
A	-7.999	-9.546	-6.767	-6.901	-4.891	-5.625	-4.762	-4.237

TABLE 14-12-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: ALBUMIN IN URINE

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	10	9	6	12	10	7	1095	1127	1083	11	8	9	10	7	8
NO	823	869	878	8	7	6	10	8	7	992	1082	1033	10	7	9	10	6	9
POSSIBLE	2	0	3	0	0	0	0	****	0	7	1	5	0	0	0	0	0	0
DEFINITE	21	7	12	1	1	0	48	143	0	72	40	42	1	1	0	14	25	0
UNKNOWN	19	7	4	1	1	0				24	4	3	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	34	27	20	47	36	27	883	912	945	32	23	14	36	25	15
NO	697	738	724	32	26	19	46	35	26	805	873	899	21	22	11	26	25	12
POSSIBLE	1	0	0	0	0	0	0	****	****	7	4	6	0	0	1	0	0	167
DEFINITE	24	10	10	1	1	1	42	100	100	61	33	39	11	1	2	180	30	51
UNKNOWN	9	2	0	1	0	0				10	2	1	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	23	30	28	66	60	48	437	613	739	26	34	40	59	55	54
NO	326	480	563	23	28	25	71	58	44	405	588	706	25	30	32	62	51	45
POSSIBLE	1	1	6	0	0	0	0	0	0	0	1	2	0	0	0	****	0	0
DEFINITE	14	15	18	0	2	3	0	133	167	24	20	28	1	4	8	42	200	286
UNKNOWN	7	3	2	0	0	0				8	4	3	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.804	1.511*******	
SE(B)	0.545	0.572 ******	
A	-4.626	-4.813*******	
WOMEN			
B	0.143	0.682*******	
SE(B)	0.534	0.542 ******	
A	-4.591	-5.035*******	
AGE 45-54 AT EXAM			
MEN			
B	-0.062	0.556	0.708
SE(B)	0.521	0.536	0.540
A	-3.035	-3.310	-3.614
WOMEN			
B	1.045	0.068	0.818
SE(B)	0.201	0.526	0.362
A	-3.632	-3.658	-4.354
AGE 55-64 AT EXAM			
MEN			
B	*******	0.443	0.683
SE(B)	******	0.394	0.337
A	*******	-2.783	-3.080
WOMEN			
B	-0.207	0.761	1.057
SE(B)	0.521	0.295	0.228
A	-2.721	-2.925	-3.051

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 14-12-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: ALBUMIN IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	3	3		12496	14	11		9158	34	37		2878	18	63	
NO	8678	3	3	******	12204	11	9	9.0	8688	29	33	33.1	2676	17	64	63.2
POSSIBLE	20	0	0	******	42	0	0	35.3	82	0	0	66.5	26	0	0	58.6
DEFINITE	148	0	0	******	214	3	140	136.7	356	5	140	132.8	170	1	59	54.3
UNKNOWN	76	0			36	0			32	0			6	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	3	3		15650	15	10		11938	24	20		3978	29	73	
NO	10354	3	3	******	14938	13	9	8.6	11396	18	16	16.0	3776	25	66	66.9
POSSIBLE	88	0	0	******	132	0	0	17.3	120	1	83	47.0	38	1	263	121.3
DEFINITE	420	0	0	******	542	2	37	34.8	382	5	131	136.6	150	3	200	218.0
UNKNOWN	72	0			38	0			40	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	1.376	0.700	0.705	1.085	-0.077	0.606
SE(B)	******	******	0.332	0.387	0.249	0.250	0.528	0.296
A	*******	*******	-6.323	-6.361	-5.012	-5.742	-4.357	-4.300

TABLE 14-13-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: SUGAR IN URINE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	883	897	10	9	6	12	10	7	1095	1127	1083	11	8	9	10	7	8	
																			MEN
NO	825	872	887	9	8	5	11	9	6	1059	1119	1075	10	8	9	9	7	8	8********** 1.782
POSSIBLE	13	2	0	0	0	0	0	0	****	7	0	0	0	0	0	0	****	****	SE(B)****** ****** 0.592
DEFINITE	8	2	6	0	0	1	0	0	167	5	4	5	1	0	0	200	0	0	A********** -5.173
UNKNOWN	19	7	4	1	1	0				24	4	3	0	0	0				WOMEN
																			8 1.543**********
																			SE(8) 0.593 ****** ******
																			A -4.668**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	731	750	734	34	27	20	47	36	27	883	912	945	32	23	14	36	25	15	
																			MEN
NO	690	723	710	28	24	16	41	33	23	853	900	931	30	19	11	35	21	12	8 1.022 0.817 1.174
POSSIBLE	20	11	11	2	1	2	100	91	182	11	1	2	0	0	1	0	0	500	SE(8) 0.325 0.374 0.358
DEFINITE	12	14	13	3	2	2	250	143	154	9	9	11	2	4	2	222	444	182	A -3.165 -3.367 -3.732
UNKNOWN	9	2	0	1	0	0				10	2	1	0	0	0				WOMEN
																			8 0.883 1.795 1.567
																			SE(8) 0.423 0.354 0.390
																			A -3.327 -3.840 -4.386
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	348	499	589	23	30	28	66	60	48	437	613	739	26	34	40	59	55	54	
																			MEN
NO	326	483	566	23	29	27	71	60	48	415	592	721	26	30	38	63	51	53	8******* 0.185 0.057
POSSIBLE	9	2	4	0	0	0	0	0	0	5	4	1	0	1	1	0	250	1000	SE(8)****** 0.541 0.537
DEFINITE	6	11	17	0	1	1	0	91	59	9	13	14	0	3	1	0	231	71	A******* -2.753 -2.998
UNKNOWN	7	3	2	0	0	0				8	4	3	0	0	0				WOMEN
																			8******* 0.914 0.364
																			SE(8)****** 0.328 0.442
																			A******* -2.921 -2.876

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 14-13-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: SUGAR IN URINE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	3	3		12496	14	11		9158	34	37		2878	18	63	
NO	8742	3	3	******	12148	14	12	******	8804	31	35	35.6	2744	18	66	******
POSSIBLE	44	0	0	******	108	0	0	******	54	1	185	55.9	14	0	0	******
DEFINITE	68	0	0	******	206	0	0	******	268	2	75	87.6	114	0	0	******
UNKNOWN	68	0			34	0			32	0			6	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	3	3		15650	15	10		11938	24	20		3978	29	73	
NO	10784	3	3	******	15432	13	8	8.4	11670	22	19	18.8	3884	29	75	******
POSSIBLE	16	0	0	******	46	0	0	34.7	50	0	0	44.3	12	0	0	******
DEFINITE	62	0	0	******	136	2	147	141.2	182	2	110	103.8	68	0	0	******
UNKNOWN	72	0			36	0			36	0			14	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AI EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	*******	1.426	0.456	0.864	*******	*******
SE(B)	******	******	******	0.389	0.337	0.379	******	******
A	*******	*******	*******	-6.391	-4.937	-5.582	*******	*******

TABLE 14-14-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	10	9	6	12	10	7	1095	1127	1083	11	8	9	10	7	8
NO	771	781	816	5	3	2	6	4	2	953	1017	1013	8	5	5	8	5	5
POSSIBLE	26	35	43	0	0	0	0	0	0	56	39	36	0	1	1	0	26	28
DEFINITE	64	65	37	5	6	4	78	92	108	82	70	33	3	2	3	37	29	91
UNKNOWN	4	2	1	0	0	0				4	1	1	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	34	27	20	47	36	27	883	912	945	32	23	14	36	25	15
NO	579	650	647	23	18	13	40	28	20	631	688	763	9	8	5	14	12	7
POSSIBLE	24	41	42	2	2	1	83	49	24	61	79	100	2	4	2	33	51	20
DEFINITE	124	59	45	9	7	6	73	119	133	185	145	82	21	11	7	114	76	85
UNKNOWN	4	0	0	0	0	0				6	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	23	30	28	66	60	48	437	613	739	26	34	40	59	55	54
NO	249	379	475	12	20	18	48	53	38	253	366	471	12	13	12	47	36	25
POSSIBLE	17	45	51	2	3	3	118	67	59	34	80	116	1	3	6	29	38	52
DEFINITE	81	75	63	9	7	7	111	93	111	146	167	152	12	18	22	82	108	145
UNKNOWN	1	0	0	0	0	0				4	0	0	1	0	0			

LOGISTIC PARAMETERS

	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	1.280	1.662	1.990
SE(B)	0.332	0.375	0.471
A	-5.090	-5.669	-6.183
WOMEN			
B	0.697	0.928	1.510
SE(B)	0.361	0.401	0.370
A	-4.829	-5.262	-5.287
AGE 45-54 AT EXAM			
MEN			
B	0.331	0.767	0.975
SE(B)	0.199	0.233	0.266
A	-3.170	-3.568	-3.930
WOMEN			
B	1.097	0.962	1.329
SE(B)	0.205	0.228	0.303
A	-4.263	-4.356	-5.057
AGE 55-64 AT EXAM			
MEN			
B	0.458	0.303	0.570
SE(B)	0.227	0.226	0.232
A	-2.953	-2.891	-3.243
WOMEN			
B	0.293	0.602	0.942
SE(B)	0.215	0.194	0.188
A	-3.046	-3.372	-3.688

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 14-14-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: HEART ENLARGEMENT BY X-RAY

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	3	3		12496	14	11		9158	34	37		2878	18	63	
NO	8096	1	1	1.1	10596	7	7	5.8	6976	17	24	24.5	1846	6	33	32.1
POSSIBLE	372	0	0	6.8	930	0	0	19.2	974	5	51	49.7	448	3	67	70.3
DEFINITE	434	2	46	43.2	960	7	73	63.6	1206	12	100	100.2	584	9	154	152.8
UNKNOWN	20	0			10	0			2	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	3	3		15650	15	10		11938	24	20		3978	29	73	
NO	10074	1	1	1.4	12700	3	2	2.5	7502	4	5	3.8	1882	6	32	32.5
POSSIBLE	370	1	27	6.3	1380	2	14	12.7	1968	1	5	16.7	726	5	69	65.8
DEFINITE	476	1	21	29.1	1564	10	64	64.7	2460	19	77	72.6	1370	18	131	132.2
UNKNOWN	14	0			6	0			8	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	1.849	1.529	1.206	1.641	0.712	1.481	0.793	0.712
SE(B)	0.645	0.602	0.287	0.317	0.189	0.298	0.266	0.229
A	-8.442	-8.200	-6.765	-7.616	-5.314	-7.179	-5.042	-5.030

TABLE 14-15-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	883	897	10	9	6	12	10	7	1095	1127	1083	11	8	9	10	7	8	
																			MEN
NO	840	848	865	7	5	2	8	6	2	1085	1108	1064	9	7	8	8	6	8	B 1.790 2.274 3.211
POSSIBLE	16	27	27	1	1	1	63	37	37	7	15	15	0	0	0	0	0	0	SE(B) 0.425 0.427 0.580
DEFINITE	9	8	5	2	3	3	222	375	600	3	4	4	2	1	1	667	250	250	A -4.763 -5.170 -6.158
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 2.530 1.801 1.696
																			SE(B) 0.567 0.628 0.625
																			A -4.820 -5.097 -4.920
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	731	750	734	34	27	20	47	36	27	883	912	945	32	23	14	36	25	15	
																			MEN
NO	696	700	682	25	18	12	36	26	18	851	867	908	22	15	10	26	17	11	B 1.271 1.336 1.354
POSSIBLE	19	25	30	5	2	4	263	80	133	16	31	25	2	1	0	125	32	0	SE(B) 0.272 0.249 0.285
DEFINITE	16	25	22	4	7	4	250	280	182	16	14	12	8	7	4	500	500	333	A -3.236 -3.642 -3.944
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 1.804 1.907 1.796
																			SE(B) 0.264 0.291 0.354
																			A -3.634 -4.112 -4.574
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	348	499	589	23	30	28	66	60	48	437	613	739	26	34	40	59	55	54	
																			MEN
NO	313	437	519	20	22	18	64	50	35	419	552	654	19	20	23	45	36	35	B 0.221 0.651 0.859
POSSIBLE	15	31	31	1	3	4	67	97	129	8	35	46	1	4	4	125	114	87	SE(B) 0.377 0.257 0.238
DEFINITE	20	31	39	2	5	6	100	161	154	10	26	39	6	10	13	600	385	333	A -2.689 -2.934 -3.284
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				WOMEN
																			B 1.673 1.391 1.287
																			SE(B) 0.328 0.227 0.200
																			A -3.064 -3.295 -3.340

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 14-15-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	3	3		12496	14	11		9158	34	37		2878	18	63	
NO	8596	2	2	2.1	11682	5	4	3.9	8084	19	24	23.3	2376	12	51	48.0
POSSIBLE	258	0	0	15.8	542	1	18	33.8	590	4	68	73.0	244	1	41	90.7
DEFINITE	68	1	147	117.1	272	8	294	278.8	484	11	227	224.1	258	5	194	170.3
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	3	3		15650	15	10		11938	24	20		3978	29	73	
NO	10742	2	2	1.8	15120	10	7	6.4	10786	11	10	11.0	3360	12	36	36.4
POSSIBLE	136	0	0	16.9	384	1	26	41.1	698	5	72	46.9	348	5	144	131.4
DEFINITE	56	1	179	158.1	146	4	274	254.1	454	8	176	195.2	270	12	444	452.4
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	2.025	2.266	2.160	1.864	1.152	1.457	0.646	1.304
SE(B)	0.670	0.647	0.298	0.307	0.192	0.224	0.280	0.208
A	-7.780	-7.954	-7.149	-6.656	-5.364	-6.117	-4.637	-4.917

TABLE 14-16-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	883	897	10	9	6	12	10	7	1095	1127	1083	11	8	9	10	7	8	
																			MEN
NO	845	862	871	10	9	6	12	10	7	1077	1111	1070	11	8	9	10	7	8	B**********
YES	20	21	26	0	0	0	0	0	0	18	16	13	0	0	0	0	0	0	SE(B)****** ****** ******
																			A**********
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B**********
																			SE(B)****** ****** ******
																			A**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	731	750	734	34	27	20	47	36	27	883	912	945	32	23	14	36	25	15	
																			MEN
NO	704	729	707	32	25	20	45	34	28	861	875	912	28	20	12	33	23	13	B 0.519 1.087*******
YES	27	21	27	2	2	0	74	95	0	22	37	33	4	3	2	182	81	61	SE(B) 0.757 0.771 ******
																			A -3.045 -3.338*******
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 1.889 1.328 1.577
																			SE(B) 0.585 0.643 0.785
																			A -3.393 -3.755 -4.317
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	348	499	589	23	30	28	66	60	48	437	613	739	26	34	40	59	55	54	
																			MEN
NO	336	475	553	23	29	26	68	61	47	423	579	688	26	33	36	61	57	52	B******* -0.402 0.176
YES	12	24	36	0	1	2	0	42	56	14	34	51	0	1	4	0	29	78	SE(B)****** 1.039 0.755
																			A******* -2.733 -3.009
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B******* -0.690 0.433
																			SE(B)****** 1.031 0.548
																			A******* -2.806 -2.897

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 14-16-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: DEFINITE NONSPECIFIC T-WAVE ABNORMALITY BY ELECTROCARDIOGRAM

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	3	3		12496	14	11		9158	34	37		2878	18	63	
NO	8684	3	3	3.5	11916	14	12	11.7	8546	30	35	35.1	2602	17	65	65.3
YES	238	0	0	0.0	580	0	0	0.0	612	4	65	65.4	276	1	36	36.2
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	3	3		15650	15	10		11938	24	20		3978	29	73	
NO	10738	3	3	2.8	15106	13	9	8.6	11204	22	20	19.6	3620	27	75	74.6
YES	196	0	0	0.0	544	2	37	36.8	734	2	27	27.2	358	2	56	55.9
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	*******	1.458	0.628	0.329	-0.595	-0.293
SE(B)	******	******	******	0.762	0.536	0.741	1.033	0.737
A	*******	*******	*******	-6.363	-4.952	-5.536	-4.325	-4.190

TABLE 14-17-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: DIABETES MELLITUS

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	883	897	10	9	6	12	10	7	1095	1127	1083	11	8	9	10	7	8	
																			MEN
NO	853	873	887	10	8	5	12	9	6	1087	1121	1077	10	8	9	9	7	8	B******* 2.486 2.976
YES	12	10	10	0	1	1	0	100	100	8	6	6	1	0	0	125	0	0	SE(B)****** 1.112 1.146
																			A******* -4.683 -5.173
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 2.733**********
																			SE(B) 1.115 ****** ******
																			A -4.679**********
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	731	750	734	34	27	20	47	36	27	883	912	945	32	23	14	36	25	15	
																			MEN
NO	708	724	711	30	24	17	42	33	24	861	897	922	27	19	9	31	21	10	B 1.560 1.336 1.812
YES	23	26	23	4	3	3	174	115	130	22	15	23	5	4	5	227	267	217	SE(B) 0.581 0.648 0.666
																			A -3.118 -3.373 -3.709
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 2.207 2.822 3.339
																			SE(B) 0.545 0.628 0.606
																			A -3.430 -3.833 -4.620
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	348	499	589	23	30	28	66	60	48	437	613	739	26	34	40	59	55	54	
																			MEN
NO	333	479	563	23	29	27	69	61	48	424	586	708	23	29	36	54	49	51	B******* -0.202 -0.231
YES	15	20	26	0	1	1	0	50	38	13	27	31	3	5	4	231	185	129	SE(B)****** 1.044 1.039
																			A******* -2.742 -2.988
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 1.654 1.474 1.017
																			SE(B) 0.692 0.531 0.562
																			A -2.858 -2.955 -2.927

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 14-17-8

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: DIABETES MELLITUS

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	3	3		12496	14	11		9158	34	37		2878	18	63	
NO	8830	3	3	3.4	12130	13	11	10.7	8686	30	35	34.5	2676	18	67	67.3
YES	92	0	0	0.0	366	1	27	27.3	472	4	85	84.7	202	0	0	0.0
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	3	3		15650	15	10		11938	24	20		3978	29	73	
NO	10860	3	3	2.8	15364	13	8	8.5	11468	20	17	17.4	3718	24	65	64.6
YES	74	0	0	0.0	286	2	70	69.9	470	4	85	85.1	260	5	192	192.3
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.939	2.124	0.908	1.599	*******	1.118
SE(B)	******	******	1.040	0.764	0.537	0.552	******	0.500
A	*******	*******	-6.143	-6.380	-4.968	-5.655	*******	-4.337

TABLE 14-18-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: HYPERTENSION

	- MEN -									- WOMEN -								
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000		
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
AGE 35-44 AT EXAM																		
TOTAL	865	883	897	10	9	6	12	10	7	1095	1127	1083	11	8	9	10	7	8
NO	381	508	601	2	3	2	5	6	3	709	874	871	3	4	4	4	5	5
BORDER	355	266	212	4	0	1	11	0	5	291	187	169	3	2	3	10	11	18
DEFINITE	129	109	84	4	6	3	31	55	36	95	66	43	5	2	2	53	30	47
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 45-54 AT EXAM																		
TOTAL	731	750	734	34	27	20	47	36	27	883	912	945	32	23	14	36	25	15
NO	289	374	399	4	6	7	14	16	18	310	419	514	6	3	3	19	7	6
BORDER	270	243	221	12	11	5	44	45	23	363	305	263	9	9	4	25	30	15
DEFINITE	172	133	114	18	10	8	105	75	70	210	188	168	17	11	7	81	59	42
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			
AGE 55-64 AT EXAM																		
TOTAL	348	499	589	23	30	28	66	60	48	437	613	739	26	34	40	59	55	54
NO	124	219	300	4	7	9	32	32	30	102	161	257	2	3	7	20	19	27
BORDER	132	168	177	7	11	7	53	65	40	178	233	253	11	12	11	62	52	43
DEFINITE	92	112	112	12	12	12	130	107	107	157	219	229	13	19	22	83	87	96
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0			

LOGISTIC PARAMETERS	1	2	3
AGE 35-44 AT EXAM			
MEN			
B	0.921	1.337	1.247
SE(B)	0.438	0.451	0.508
A	-5.322	-5.816	-5.956
WOMEN			
B	1.316	0.948	1.201
SE(B)	0.389	0.436	0.418
A	-5.620	-5.401	-5.337
AGE 45-54 AT EXAM			
MEN			
B	1.022	0.782	0.727
SE(B)	0.249	0.249	0.282
A	-4.166	-3.991	-4.169
WOMEN			
B	0.845	0.994	1.005
SE(B)	0.254	0.284	0.341
A	-4.219	-4.691	-5.153
AGE 55-64 AT EXAM			
MEN			
B	0.796	0.636	0.691
SE(B)	0.297	0.239	0.239
A	-3.538	-3.362	-3.605
WOMEN			
B	0.593	0.721	0.700
SE(B)	0.294	0.258	0.219
A	-3.514	-3.759	-3.675

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 14-18-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CARDICVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: HYPERTENSION

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	3	3		12496	14	11		9158	34	37		2878	18	63	
NO	5280	0	0	1.0	6458	4	6	6.4	4128	9	22	17.2	1138	6	53	58.3
BORDER	2624	2	8	3.8	3838	5	13	12.3	2962	7	24	36.6	1064	8	75	63.2
DEFINITE	1018	1	10	14.8	2200	5	23	23.4	2068	18	87	77.8	676	4	59	68.6
UNKNOWN	0	0			0	0			0	0			0	0		

	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	3	3		15650	15	10		11938	24	20		3978	29	73	
NO	8338	2	2	1.9	8664	4	5	3.2	4182	9	22	16.0	902	0	0	15.6
BORDER	1962	0	0	4.2	4536	2	4	10.0	4294	4	9	20.1	1560	10	64	46.1
DEFINITE	634	1	16	9.3	2450	9	37	31.6	3462	11	32	25.1	1516	19	125	134.6
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM MEN	AGE 35-44 AT EXAM WOMEN	AGE 45-54 AT EXAM MEN	AGE 45-54 AT EXAM WOMEN	AGE 55-64 AT EXAM MEN	AGE 55-64 AT EXAM WOMEN	AGE 65-74 AT EXAM MEN	AGE 65-74 AT EXAM WOMEN
B	1.370	0.792	0.648	1.154	0.762	0.226	0.082	1.090
SE(B)	0.771	0.737	0.330	0.338	0.220	0.257	0.303	0.329
A	-8.560	-7.873	-6.656	-7.368	-5.672	-5.741	-4.440	-5.768

TABLE 14-19-A

INCIDENCE OF EVENT AFTER SPECIFIED EXAM*, BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP
EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: GLUCOSE INTOLERANCE

	- MEN -									- WOMEN -									
	MEN AT RISK			INCIDENCE			RATE PER 1000			WOMEN AT RISK			INCIDENCE			RATE PER 1000			LOGISTIC PARAMETERS
EXAM NUMBER	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1 2 3
AGE 35-44 AT EXAM																			AGE 35-44 AT EXAM
TOTAL	865	883	897	10	9	6	12	10	7	1095	1127	1083	11	8	9	10	7	8	
																			MEN
NO	826	864	878	10	8	5	12	9	6	1072	1111	1064	10	7	9	9	6	8	B******* 1.782 2.272
YES	39	19	19	0	1	1	0	53	53	23	16	19	1	1	0	43	63	0	SE(B)****** 1.087 1.121
																			A******* -4.673 -5.162
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 1.574 2.353*******
																			SE(B) 1.071 1.100 ******
																			A -4.665 -5.061*******
AGE 45-54 AT EXAM																			AGE 45-54 AT EXAM
TOTAL	731	750	734	34	27	20	47	36	27	883	912	945	32	23	14	36	25	15	
																			MEN
NO	681	699	691	28	23	15	41	33	22	842	886	910	27	19	9	32	21	10	B 1.157 0.917 1.780
YES	50	51	43	6	4	5	120	78	116	41	26	35	5	4	5	122	154	143	SE(B) 0.476 0.562 0.543
																			A -3.149 -3.381 -3.808
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 1.433 2.116 2.815
																			SE(B) 0.516 0.591 0.588
																			A -3.407 -3.821 -4.606
AGE 55-64 AT EXAM																			AGE 55-64 AT EXAM
TOTAL	348	499	589	23	30	28	66	60	48	437	613	739	26	34	40	59	55	54	
																			MEN
NO	321	467	543	23	29	26	72	62	48	405	571	687	23	26	32	57	46	47	B******* -0.719 -0.101
YES	27	32	46	0	1	2	0	31	43	32	42	52	3	8	8	94	190	154	SE(B)****** 1.034 0.750
																			A******* -2.715 -2.990
UNKNOWN	0	0	0	0	0	0				0	0	0	0	0	0				
																			WOMEN
																			B 0.541 1.596 1.314
																			SE(B) 0.643 0.441 0.425
																			A -2.810 -3.043 -3.019

* PERIOD OF OBSERVATION IS 16 YEARS AFTER EXAM 1, 14 YEARS AFTER EXAM 2, AND 12 YEARS AFTER EXAM 3.

TABLE 14-19-B

AVERAGE ANNUAL INCIDENCE RATE FOR EVENT PER 10,000 POPULATION AT RISK AT EXAM,
BY SEX, AGE, AND LEVEL OF CHARACTERISTIC AT EXAM: FRAMINGHAM STUDY, 16-YEAR FOLLOW-UP

EVENT: DEATH FROM CARDIOVASCULAR DISEASE OTHER THAN CORONARY HEART DISEASE
CHARACTERISTIC: GLUCOSE INTOLERANCE

	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE	PERSON YEARS	EVENTS	RATE	SMOOTHED RATE
	MEN AGED 35-44 AT EXAM				MEN AGED 45-54 AT EXAM				MEN AGED 55-64 AT EXAM				MEN AGED 65-74 AT EXAM			
TOTAL	8922	3	3		12496	14	11		9158	34	37		2878	18	63	
NO	8658	3	3	3.5	11788	13	11	11.0	8410	27	32	32.1	2582	18	70	69.7
YES	264	0	0	0.0	708	1	14	14.1	748	7	94	93.6	296	0	0	0.0
UNKNOWN	0	0			0	0			0	0			0	0		
	WOMEN AGED 35-44 AT EXAM				WOMEN AGED 45-54 AT EXAM				WOMEN AGED 55-64 AT EXAM				WOMEN AGED 65-74 AT EXAM			
TOTAL	10934	3	3		15650	15	10		11938	24	20		3978	29	73	
NO	10756	3	3	2.8	15144	12	8	7.9	11182	20	18	17.9	3572	23	64	64.4
YES	178	0	0	0.0	506	3	59	59.3	756	4	53	52.9	406	6	148	147.8
UNKNOWN	0	0			0	0			0	0			0	0		

LOGISTIC PARAMETERS

	AGE 35-44 AT EXAM		AGE 45-54 AT EXAM		AGE 55-64 AT EXAM		AGE 65-74 AT EXAM	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
B	*******	*******	0.248	2.023	1.082	1.092	*******	0.848
SE(B)	******	******	1.039	0.649	0.428	0.550	******	0.465
A	*******	*******	-6.115	-6.446	-5.042	-5.630	*******	-4.339

PREVIOUS SECTIONS

Section 1. Introduction and general background
Tavia Gordon and William B. Kannel

Section 2. Follow-up to the eighth examination
Tavia Gordon

Section 3. Some characteristics of the Framingham cohort on the first 7 examinations by broad age groups
Christine Cole, Esther Allen, Manning Feinleib

Notes: Dewey Shurtleff, William P. Castelli, Lloyd E. Hawes, and Patricia M. McNamara

Section 4. Some characteristics of the Framingham cohort on the first 7 examinations by 5-year age groups
Dewey Shurtleff

Section 5. Bivariate correlations among some characteristics of the Framingham cohort at Exam 2
Dewey Shurtleff

Section 6. Smoothed average annual incidence rates by age at exam preceding event, and sex
Manning Feinleib

Section 7. Average two-year incidence rates by age at exam preceding event and sex, with total number of events and total population at risk
Manning Feinleib

Section 8. Two-year incidence by exam interval by age at Exam 1 and sex
Manning Feinleib

Criteria: William B. Kannel, William P. Castelli, and Patricia M. McNamara

Section 9. Population alive with specified events by sex, age and level of characteristic at exam
Dewey Shurtleff

Section 10. Incidence of Coronary Heart Disease by sex, age and level of characteristic at exam for 22 characteristics
Dewey Shurtleff

PREVIOUS SECTIONS

Section 11. Incidence of Myocardial Infarction by sex, age and level of characteristic at exam for 22 characteristics
Dewey Shurtleff

Section 12. Incidence of Angina Pectoris Uncomplicated by sex, age and level of characteristic at exam for 22 characteristics
Dewey Shurtleff

Section 13. Incidence of Sudden Death from Coronary Heart Disease by sex, age and level of characteristic at exam for 22 characteristics
Dewey Shurtleff

Section 14. Incidence of Non-Sudden Death From Coronary Heart Disease by sex, age and level of characteristic at exam for 22 characteristics
Dewey Shurtleff

Section 15. Incidence of Cerebrovascular Accident by sex, age and level of characteristic at exam for 22 characteristics
Dewey Shurtleff

Section 16. Incidence of Brain Infarction by sex, age and level of characteristic at exam for 22 characteristics
Dewey Shurtleff

Section 17. Incidence of Intermittent Claudication by sex, age and level of characteristic at exam for 22 characteristics
Dewey Shurtleff

Section 18. Incidence of Congestive Heart Failure by sex, age and level of characteristic at exam for 22 characteristics
Dewey Shurtleff

Section 19. Incidence of Death by sex, age and level of characteristic at exam for 22 characteristics
Dewey Shurtleff

Section 20. Incidence of Death from Coronary Heart Disease by sex, age and level of characteristic at exam for 22 characteristics
Dewey Shurtleff

Section 21. Incidence of Death From Cardiovascular Disease by sex, age and level of characteristic at exam for 22 characteristics
Dewey Shurtleff

PREVIOUS SECTIONS

Section 22. Incidence of Death from Cause other than Cardiovascular Disease by sex, age and level of characteristic at exam for 22 characteristics
Dewey Shurtleff

Section 23. Serum cholesterol, systolic blood pressure and Framingham relative weight as discriminators of cardiovascular disease
Tavia Gordon and Joel I. Verter

Section 24. The Framingham Diet Study: Diet and the regulation of serum cholesterol

Section 25. Survival following certain cardiovascular events
Joyce Schiffman

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